SHARP **SERVICE MANUAL**

No. 00ZUX8TH//SME

Illustration: UX-8

FACSIMILE

MODEL UX-8 UX-40 GQ-5 FO-50

This service manual is omitted because it is partly common to UX-60TH/FO-70TH of the service manual of the previous issue. Those common parts are to refer to the service manual of UX-60TH/FO-70TH (00ZUX60TH/SME).

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PARTS GUIDE

Parts marked with "⚠" is important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

CAUTION FOR BATTERY REPLACEMENT

(Danish) ADVARSEL !
Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandoren.

(English) Caution !
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type
recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's
instructions.

(Finnish) VAROITUS
Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

(French) ATTENTION
Il y a danger d'explosion s' il y a remplacement incorrect
de la batterie. Remplacer uniquement avec une batterie du
même type ou d'un type recommandé par le constructeur.
Mettre au rébut les batteries usagées conformément aux
instructions du fabricant.

(Swedish) VARNING
Explosionsfare vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

(German) Achtung
Explosionsgefahr bei Verwendung inkorrekter Batterien.
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder
vom Hersteller empfohlene Batterien verwendet werden.
Entsorgung der gebrauchten Batterien nur nach den vom
Hersteller angegebenen Anweisungen.

CHAPTER 1. GENERAL DESCRIPTION

[1] Specifications

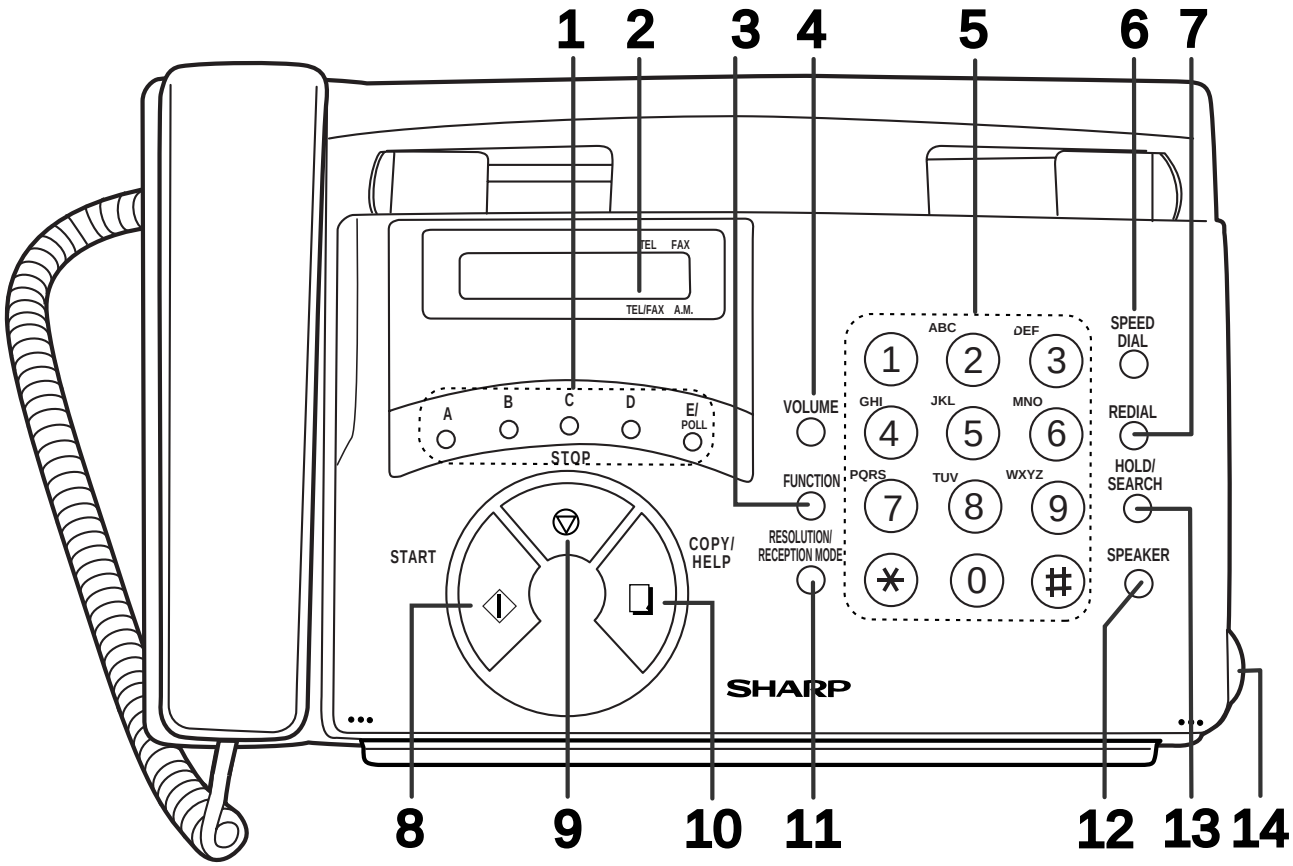
Automatic dialing:	Rapid Key Dialing: 5 numbers (**Note for UX-8/GQ-5:** Rapid Key Dialing is not available) Speed Dialing: 35 numbers (**Note for UX-8/GQ-5:** 10 number)
Fax paper:	Initial starter roll (included with machine): 10 m Recommended replacement roll: FO-20PRw, 30m, 12.7mm core
Paper cutting method:	Tear off by hand
Modem speed:	9600 bps with automatic fallback to lower speeds
Transmission time* :	Approx. 15 seconds
Resolution:	**Horizontal:** 8 dots/mm **Vertical:** Standard: 3.85 lines/mm Fine/Halftone: 7.7 lines/mm Super fine: 15.4 lines/mm
Automatic document feeder:	5 pages max. (20 lb paper) (**UX-8/GQ-5:** This function is not available)
Halftone (grayscale):	64 levels
Display:	16-digit LCD display
Compression scheme:	MR, MH, Sharp (H2)
Applicable telephone line:	Public switched telephone network
Compatibility:	ITU-T (CCITT) G3 mode
Input document size:	**Automatic feeding:** Width: 148 to 216 mm Length: 140 to 297 mm **Manual feeding:** Width: 148 to 216 mm Length: 140 to 600 mm
Effective scanning width:	210 mm max.
Effective printing width:	210 mm max.
Contrast control:	Automatic/Dark selectable
Reception modes:	Fax, Tel, Tel/Fax, A.M.
Copy function:	Yes
Telephone function:	Yes (cannot be used if power fails)
Power requirements:	220-240 V AC, 50/60 Hz
Operating temperature:	5 - 35°C
Humidity:	Maximum: 85 % RH
Power consumption:	Standby: 2.3 W Maximum: 115 W
Dimensions:	Width: 304 mm Depth: 236 mm Height: 122 mm
Weight:	Approx. 2.6 kg

* Based on ITU-T (CCITT) Test Chart #1 at standard resolution in Sharp special mode, excluding time for protocol signals (i.e., ITU-T phase C time only).

Note: The facsimile machine is Year 2000 compliant.

As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for procduct improvement without prior notice. The performance specifications figures indicated are nominal values of production units. There may be some deviation from these values in individual units.

[2] Operation panel



1. Rapid Dial keys
Press one of these keys to dial a fax number automatically.
Note for UX-8/GQ-5: Rapid Key Dialing is not available.

2. Display
This displays messages and prompts during operation and programming.

3. FUNCTION key
Press this key to select various special functions.

4. VOLUME keys
Press this keys to adjust the volume of the speaker when the **SPEAKER** key has been pressed, the volume of the ringer at all other times.

5. Number keys
Use these keys to dial numbers, and enter numbers and letters when storing auto-dial numbers.

6. SPEED DIAL key
Press this key to dial a fax or voice number using an abbreviated 2-digit Speed Dial number.

7. REDIAL key
Press this key to automatically redial the last number dialed.

8. START key
Press this key to begin transmission when using Speed Dialing, Direct Keypad Dialing, or Normal Dialing.

9. STOP key
Press this key to cancel operation before it is completed.

10. COPY/HELP key
When a document is in the feeder, press this key to make a copy of a document. At any other time, press this key to print out the Help List, a quick reference guide to the opeation of your fax machine.

11. RESOLUTION/RECEPTION MODE key
When a document is in the feeder, press this key to adjust the resolution for faxing or copying. At any other time, press this key to select the reception mode (an arrow in the display will point to the currently selected reception mode).

12. SPEAKER key
Press this key to listen the line and fax tones through the speaker when faxing a document.
Note: **This is not a speakerphone.** You must pick up the handset to talk with the other party.

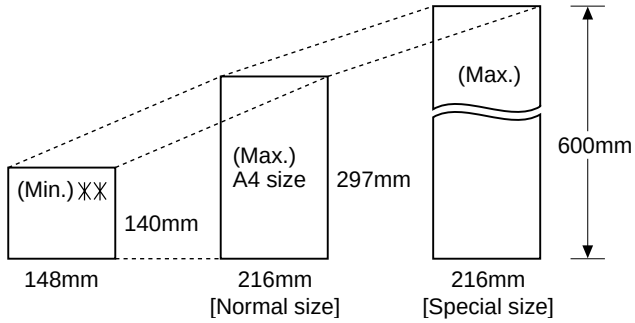
13. HOLD/SEARCH key
Press this key to search for an auto-dial number, or, during a phone conversation, press this key to put the other party on hold.

14. Panel release
Grasp this finger hold and pull toward you to open the operation panel.

[3] Transmittable documents

1. Document Sizes

Normal size	width	148 – 216 mm
	length	140 – 297 mm



※※ Use document carrier sheet for smaller documents.

* With special sizes, only one sheet can be fed into the machine at a time. Insert next page into feeder as current page is being scanned.

2. Paper Thickness & Weight

	4x6 series (788mm x 1091mm x 1000mm sheets)		Square meter series	
	Minimum	Maximum	Minimum	Maximum
Feeder capacity	5 sheets, max.			
Paper weight	45kg	69.2kg	52g/m^2	80g/m^2
Paper thickness (ref.)	0.06mm	0.09mm	0.06mm	0.09mm
Paper size	148mm x 140mm ~ A4 (210mm x 297mm), Letter (216mm x 279mm)			

3. Document Types

- Normal paper

  Documents handwritten in pencil (No. 2 lead or softer), fountain pen, ball-point pen, or felt-tipped pen can be transmitted.

  Documents of normal contrast duplicated by a copying machine can also be transmitted.
- Diazo copy (blue print)

  Diazo copy documents of a normal contrast may be transmitted.
- Carbon copy

  A carbon copy may be transmitted if its contrast is normal.

4. Cautions on Transmitting Documents

- Documents written in yellow, greenish yellow, or light blue ink cannot be transmitted.
- Ink, glue, and correcting fluid on documents must be dry before the documents can be transmitted.
- All clips, staples and pins must be removed from documents before transmission.
- Patched (taped) documents should be copied first on a copier and then the copies used for transmission.
- All documents should be fanned before insertion into the feeder to prevent possible double feeds.

5. Automatic Document Feeder Capacity

Number of pages that can be placed into the feeder at anytime is as follows:

Normal size: max. ADF 5 sheets

Special size: single sheet only (manual feed)

NOTES:
- When you need to send or copy more pages than the feeder limit, place additional pages in feeder when last page in feeder is being scanned.
- Place additional pages carefully and gently in feeder. If force is used, double-feeding or a document jam may result.

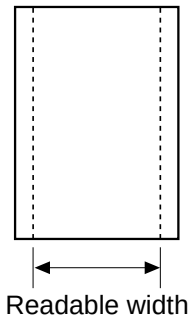
6. Readable Width & Length

The readable width and length of a document are slightly smaller than the actual document size.

Note that characters or graphics outside the effective document scanning range will not be read.

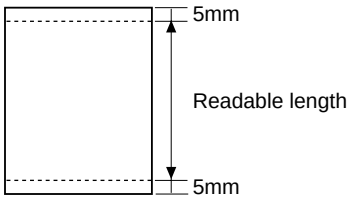
- **Readable width**

210mm, max.



- **Readable length**

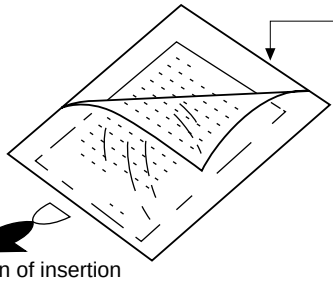
This is the length of the document sent minus 5mm from the top and bottom edges.



7. Use of Document Carrier Sheet

A document carrier sheet must be used for the following documents.

- Those with tears.
- Those smaller than size 148mm (W) x 140mm (L).
- Carbon-backed documents



Make print straight across paper
E.G.
Place the document carrier in the document feeder with the clear film side down

Direction of insertion

NOTE: To transmit a carbon-backed document, insert a white sheet of paper between the carbon back of the document and the document carrier.

- Those containing an easily separable writing substance (e.g., tracing paper written on with a soft, heavy lead pencil).

NOTES:
- When using the document carrier, carefully read the instructions written on the back.
- If the document carrier is dirty, clean it with a soft, moist cloth, and then dry it before using for transmission.
- Do not place more than one document in the carrier at a time.

[4] Installation

1. Site selection

Take the following points into consideration when selecting a site for this model.

ENVIRONMENT

- The machine must be installed on a level surface.
- Keep the machine away from air conditioners, heaters, direct sunlight, and dust.
- Provide easy access to the front, back, and sides of the machine. In particular, keep the area in front of the machine clear, or the original document may jam as it comes out after scanning.
- The temperature should be between 5° and 35°C.
- The humidity should be between 30% and 85% (without condensation).

ELECTRICITY

220-240 V, 50/60 Hz, grounded (3-prong) AC outlet is required.

Caution!

- Connection to a power source other than that specified will cause damage to the equipment and is not covered under the warranty.
- If your area experiences a high incidence of lightning or power surges, we recommend that you install a surge protector for the power and telephone lines. Surge protectors can be purchased at most telephone specialty stores.

If the machine is moved from a cold to a warm place...

Condensation may from on the reading glass if machine is moved from a cold to a warm place, this will prevent proper scanning of documents for transmission. Turn on the power and wait approximately 2 hours before using machine.

TELEPHONE JACK

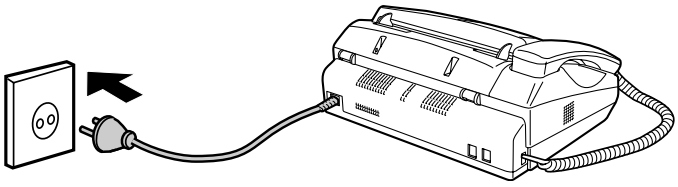
A standard telephone jack must be located near the machine.
This is the telephone jack commonly used in most homes and offices.

- Plugging the fax machine into a jack which is not an jack may result in damage to the machine or your telephone system. If you do not know what kind of jack you have, or need to have one installed, contact the telephone company.

2. Assembly and connections

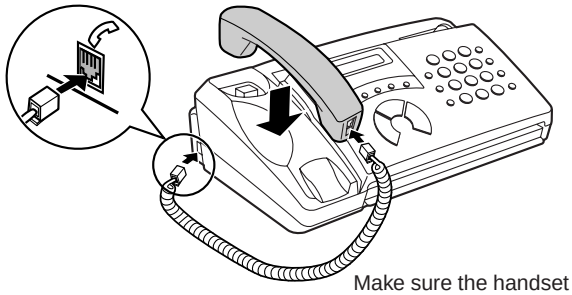
① Plug the power cord into a 220-240 V, 50/60 Hz, grounded AC outlet.

- **Caution:** Do not plug the power cord into any other kind of outlet. This will damage the machine and is not covered under the warranty.
- The machine does not have a power on/off switch, so the power is turned on and off by simply plugging in or unplugging the power cord.



② Connect the handset as shown and place it on the handset rest.

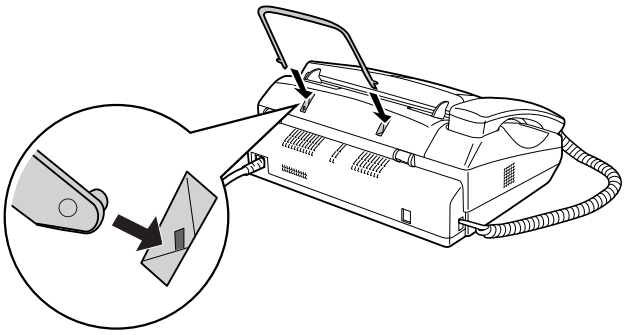
- ♦ The ends of the handset cord are identical, so they will go into either jack.



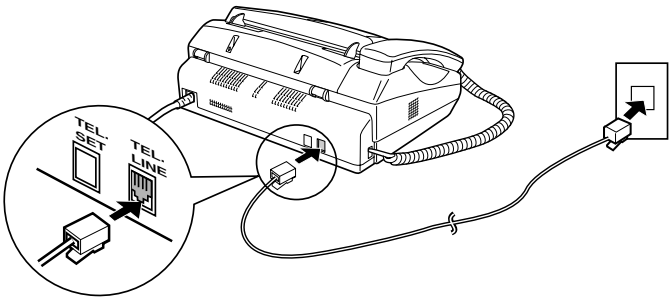
Make sure the handset cord goes into the jack marked with a handset symbol on the side of the machine!

Use the handset to make ordinary phone calls, or to transmit and receive faxes manually.

③ Attach the original document support as shown below.



④ Insert one end of the line cord into the jack on the back of the machine marked **TEL. LINE.** Insert the other end into a standard single-line wall telephone jack.



Note: The fax machine is set for touch-tone dialing. If you are on a pulse dial (rotary) line, you must set the fax machine for pulse dialing. Press the keys on the operation panel as follows:

1. Press these keys:

The display will show: FUNCTION 4 # # # #

DIAL MODE

2. Press **1** to select tone (touch-tone) dialing, or **2** to select pulse (rotary) dialing.

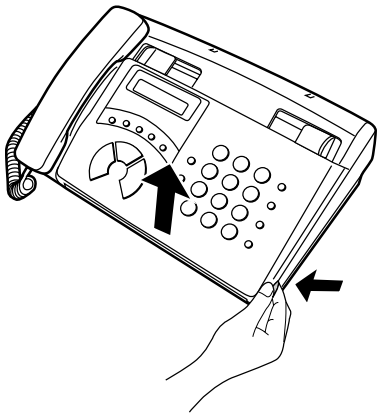
TONE PULSE
1 or 2

3. Press the **STOP** key to return to the date and time display.

STOP

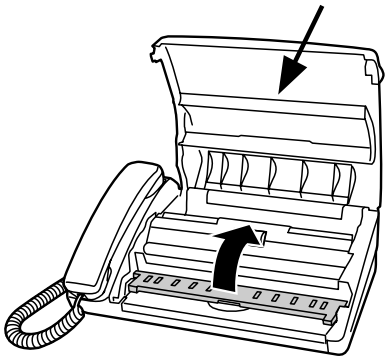
3. Removing the packing paper

① Grasp the finger hold and open the operation panel.

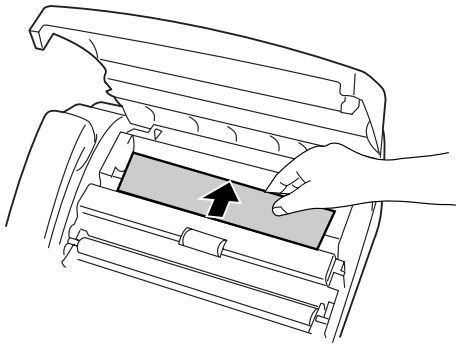


② Flip up the front paper guide.

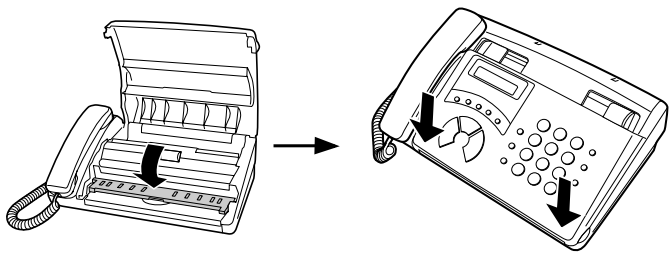
Note: Do not peel off or bend this strip of film.



③ Remove the packing paper.



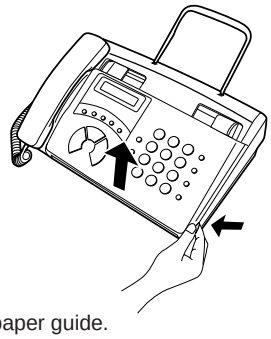
④ Flip down the front paper guide and then close the operation panel.



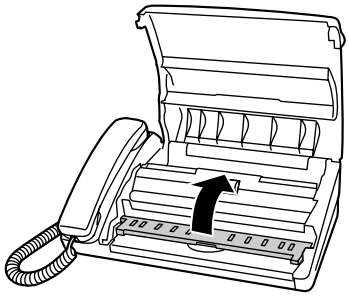
4. Loading the fax paper (FO-20PRw)

- Your fax machine prints incoming faxes on a special kind of paper called fax paper.
- The fax machine's print head creates text and images by applying heat to the fax paper.

① Grasp the finger hold as shown and pull up to open the operation panel.

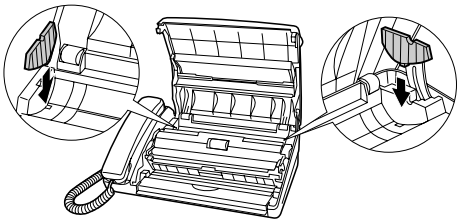


② Flip up the front paper guide.

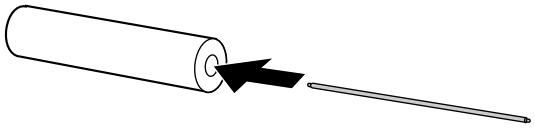


③ If you are loading A4 size paper, place the paper roll shims on each side of the paper compartment.

- The ribbed side of the shims should face in (toward each other).

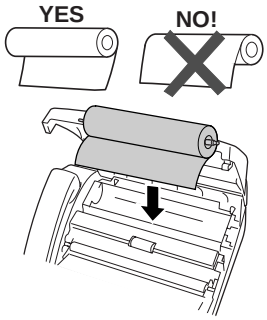


④ Unwrap the roll of fax paper and insert the paper shaft.

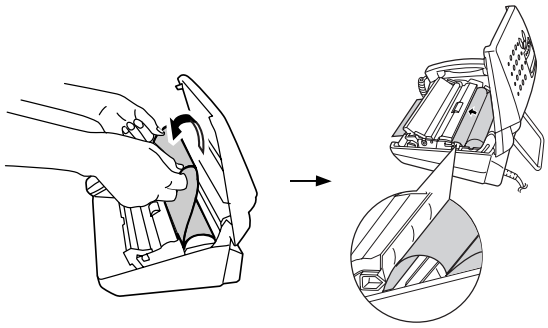


⑤ Place the roll of fax paper in the compartment, making sure the ends of the paper shaft fit into the notches on each side of the compartment.

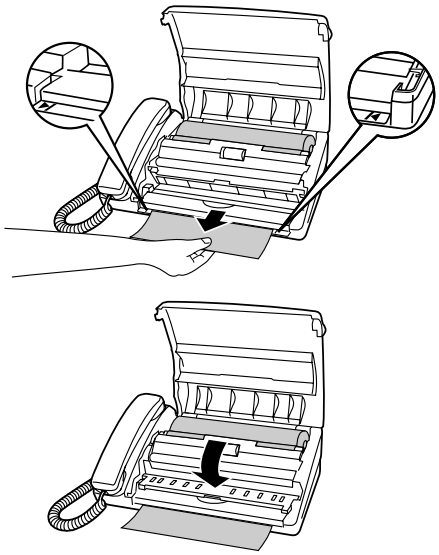
♦ **Important:** The roll must be placed so the leading edge of the paper unrolls as shown. (The paper is only coated on one side for printing. If the roll is placed backwards, the paper will come out blank after printing.)



⑥ Insert the leading edge of the paper into the slot as shown. Continue to push the paper through the slot until it comes out the opening in the front of the machine.



⑦ Make sure the paper comes out straight, and then flip down the paper guide.



⑧ Close the operation panel, making sure it clicks into place.

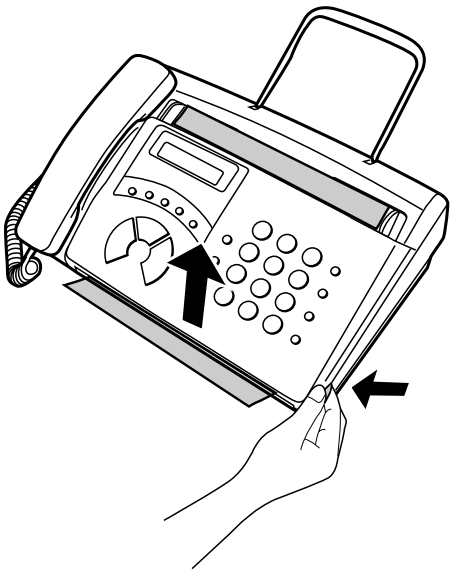
- A short length of the paper will feed out. Grasp the paper by the edge and pull upward to tear it off.

5. Clearing a jammed document

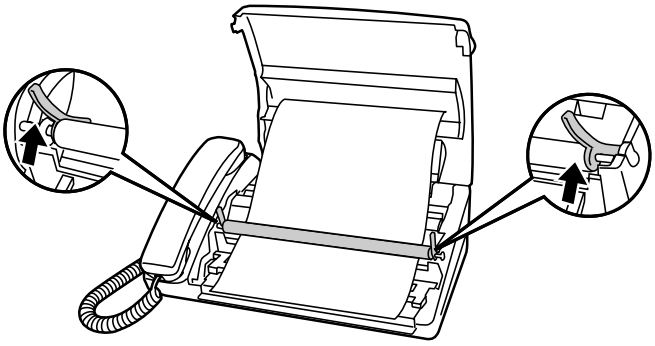
If the original document doesn't feed properly during transmission or copying, or DOCUMENT JAMMED appears in the display, first try pressing the **START** key. If the document doesn't feed out, open the operation panel and remove it.

Important:
Do not try to remove a document without first releasing it as explained below.
This may damage the feeder mechanism.

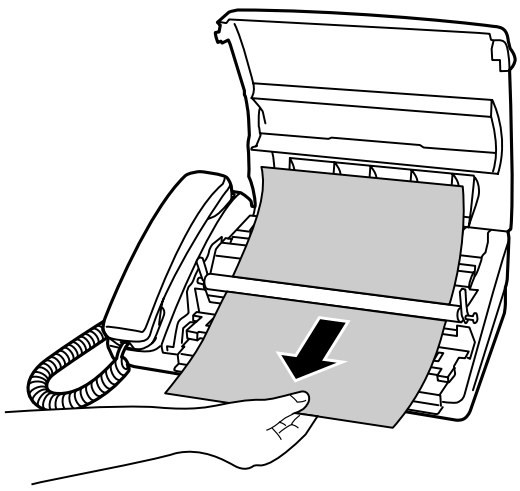
① Grasp the finger hold and pull up to open the operation panel.



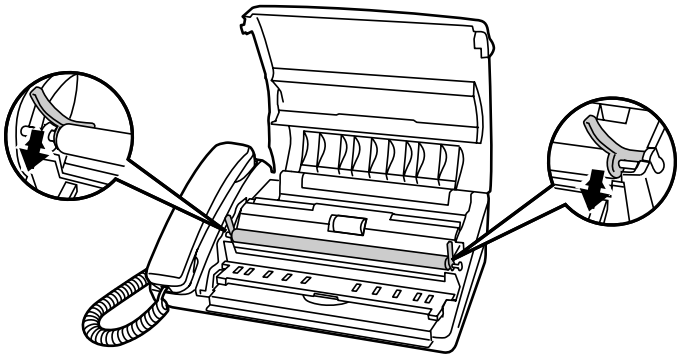
② Flip up the green levers on each side of the white roller.



③ Remove the document.

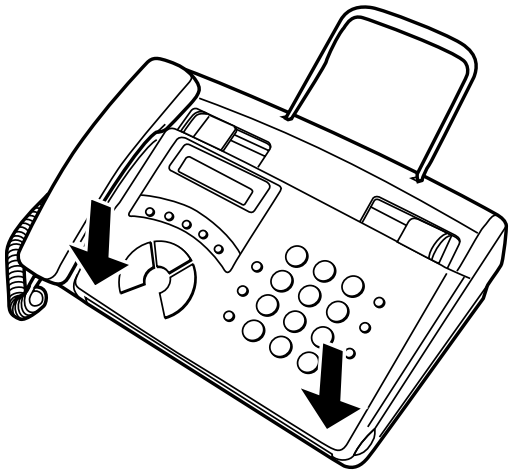


④ Flip down the green levers on each side of the white roller.



⑤ Close the operation panel, making sure it clicks into place.

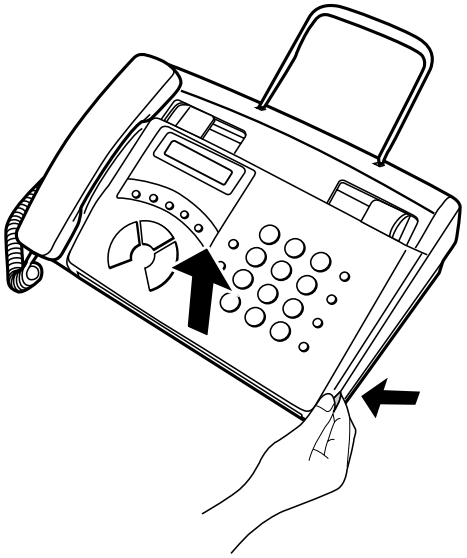
- Press down on both front corners of the panel to make sure it clicks into place.



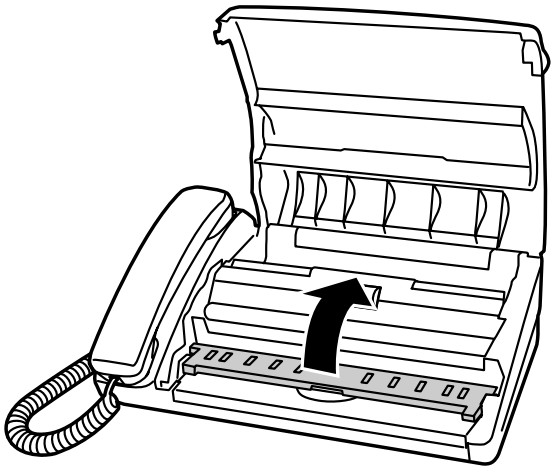
6. Clearing jammed paper

If the fax paper jams, PAPER JAMMED will appear in the display.
Follow the steps below to clear the jam.

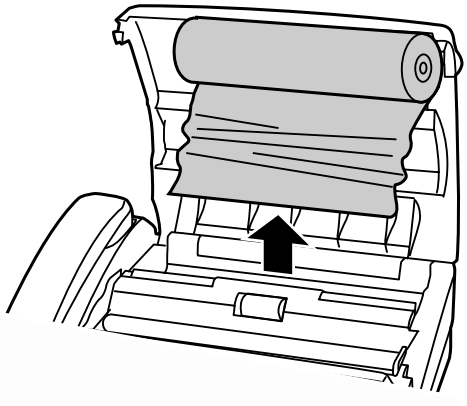
① Grasp the finger hold and pull up to open the operation panel.



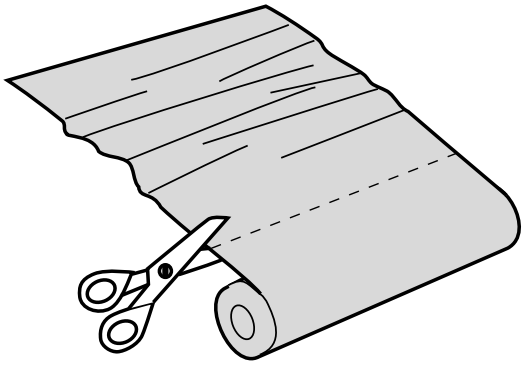
② Flip up the front paper guide.



③ Remove the paper roll.

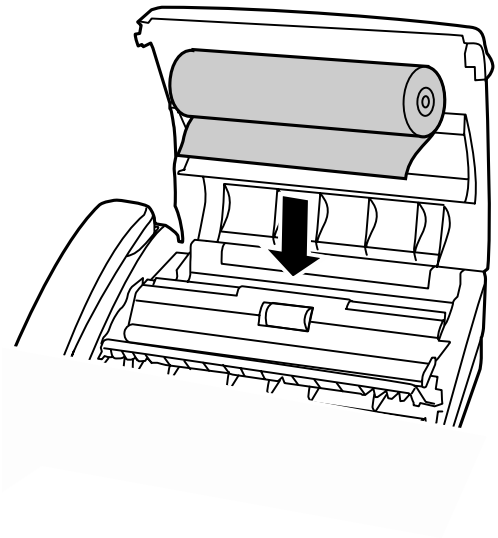


④ Cut off the wrinkled part of the paper.



⑤ Reload the paper.

- Jammed paper is often caused by improper loading. Be sure to carefully follow the instructions for paper loading given in Loading the Fax Paper.



[5] Quick reference guide

ENTERING YOUR NAME AND NUMBER

1. Press: FUNCTION 3 # #

   Display shows: OWN NUMBER SET

2. Press: START
3. Enter your fax number (max. of 20 digits) by pressing the number keys.

- To insert a space between digits, press the # key.
- If you make a mistake, press the **SPEED DIAL** key to backspace and clear the mistake.

4. Press: START
5. Enter your name by pressing the appropriate number keys as shown below.

- To enter two letters in succession that require the same key, press the **SPEAKER** key after entering the first letter.

SPACE = 1 1
A = 2 2
B = 2 2 2
C = 2 2 2 2
D = 3 3
E = 3 3 3
F = 3 3 3 3
G = 4 4
H = 4 4 4
I = 4 4 4 4
J = 5 5
K = 5 5 5
L = 5 5 5 5
M = 6 6
N = 6 6 6
O = 6 6 6 6
P = 7 7
Q = 7 7 7
R = 7 7 7 7
S = 7 7 7 7 7
T = 8 8
U = 8 8 8
V = 8 8 8 8
W = 9 9
X = 9 9 9
Y = 9 9 9 9
Z = 9 9 9 9 9

- To change case, press the **REDIAL** key.
  Press # or * to scroll through symbols and special characters.

6. When finished, press: START STOP

SETTING THE DATE AND TIME

1. Press: FUNCTION 3 # # #

   Display shows: DATE & TIME SET

2. Press: START
3. Enter two digits for the Day (01 through 31).
4. Enter two digits for the Month (01 through 12).
5. Enter four digits for the Year (Ex: 1999).
6. Enter two digits for the Hour (01 through 23).
7. Enter two digits for the Minute (00 through 59).
8. When finished, press: START STOP

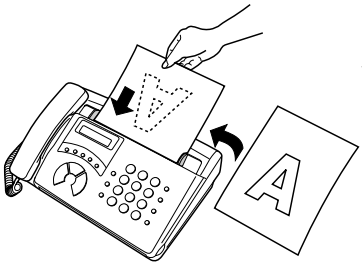
STORING AND CLEARING AUTO DIAL NUMBERS

1. Press: FUNCTION 3 #

   Display shows: FAX/TEL # MODE

2. Press **1** to store a number or **2** to clear a number.
3. Enter a 2-digit Speed Dial number (from 01 to 05 for Rapid Key Dialing, or 06 to 40 for Speed Dialing) (If you are clearing a number, go to Step 7.) (**UX-8**: 01 to 10)
4. Enter the full fax/telephone number.
5. Press: START
6. Enter the name of the location by pressing number keys (Refer to the letter entry table in *ENTERING YOUR NAME AND NUMBER*.)
7. Press: START STOP

SENDING FAXES



Place your document (up to 5 pages) face down in the document feeder. (**UX-8/GQ-5:** Only one page can be loaded at a time.)

Normal Dialing

1. Lift the handset or press SPEAKER
2. Dial the fax number.
3. Wait for the reception tone (if a person answers, ask them to press their Start key).
4. Press: START

Rapid Key Dialing

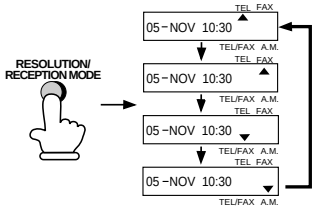
Press the appropriate Rapid Key. Transmission will begin automatically. (**Note for UX-8/GQ-5:** Rapid Key Dialing is not available.)

Speed Dialing

1. Press: SPEED DIAL
2. Enter 2-digit Speed Dial number.
3. Press: START

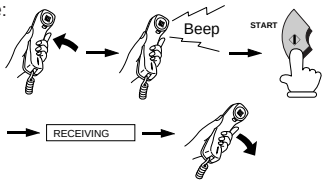
RECEIVING FAXES

Press the **RESOLUTION/RECEPTION MODE** key until the arrow in the display points to the desired reception mode (make sure the document feeder is empty).



FAX mode: The fax machine automatically answers on four rings and receives the incoming document.

TEL mode:



TEL/FAX mode: The fax machine automatically answers on 1 or 2 rings and receives faxes. Voice calls (including manually dialed fax transmissions) are signalled by a special ringing sound.

A.M. mode: Select this mode when an answering machine is connected to the fax and the answering machine is turned on.

M E M O

CHAPTER 2. ADJUSTMENTS

[1] Adjustments

General

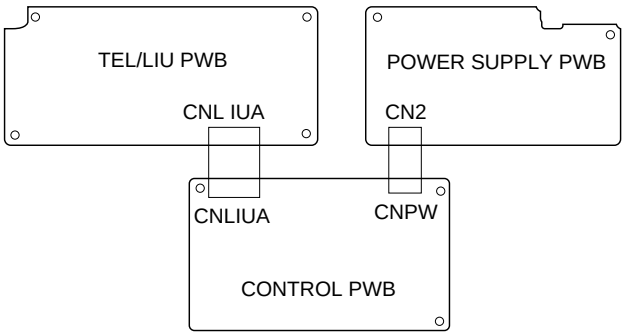
Since the following adjustments and settings are provided for this model, make adjustments and/or setup as necessary.

1. Adjustments

Adjustments of output voltage (FACTORY ONLY)

1. Install the power supply unit in the machine.
2. Set the recording paper and document.
3. When the document is loaded, power is supplied to the output lines. Confirm that outputs are within the limits below.

Output voltage settings



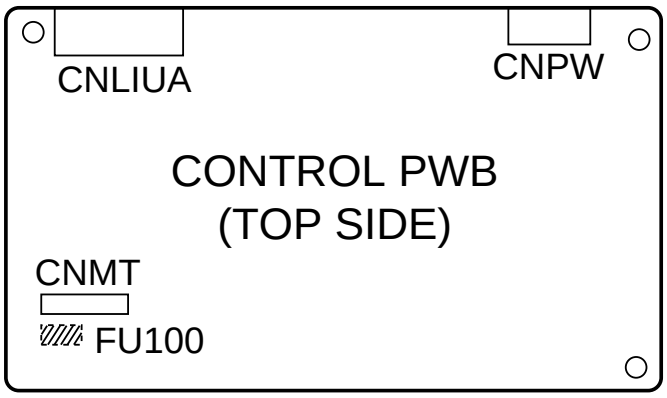
Output	Voltage limits
+5V	4.75V ~ 5.25V
+24V	24.0V ~ 26.0V

Connector No. / Pin No.	CNPW
1	DG
2	+5V
3	MG
4	MG
5	+24V
6	+24V
7	DG
8	PSAVE

2. IC protectors replacement

ICPs (IC Protectors) are installed to protect the motor driver circuit. ICPs protect various ICs and electronic circuits from an overcurrent condition.

The location of ICPs are shown below:



(1) FU100 (KAB2402) is installed in order to protect IC's from an overcurrent generated in the motor drive circuit. If FU100 is open, replace it with a new one.

3. Settings

Dial mode selector

DIAL mode (Soft Switch No. SWB4 DATA No. 2)

(step 1) Select "OPTION SETTING".

KEY : [FUNCTION] (4)

DISPLAY: [OPTION SETTING] ⇔ [PRESS ✕ OR #]

(step 2) Select "DIAL MODE".

KEY: Push (#) until " [DAIL MODE] " is indicated because the number of (#)s changes by the model.

Cursor
When initially registering, the mode shows 1=TONE.
When registering again, the mode which was registered formerly is shown.

DISPLAY: [DIAL MODE] ⇔ [1=TONE, 2=PULSE]

(step 3) Select, using "1" or "2".

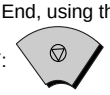
KEY: (1)

DISPLAY: [TONE SELECTED]

KEY: (2)

DISPLAY: [PULSE SELECTED]

(step 4) End, using the "STOP" key.

KEY:  STOP

[2] Diagnostics and service soft switch

1. Operating procedure

(1) Entering the diagnostic mode

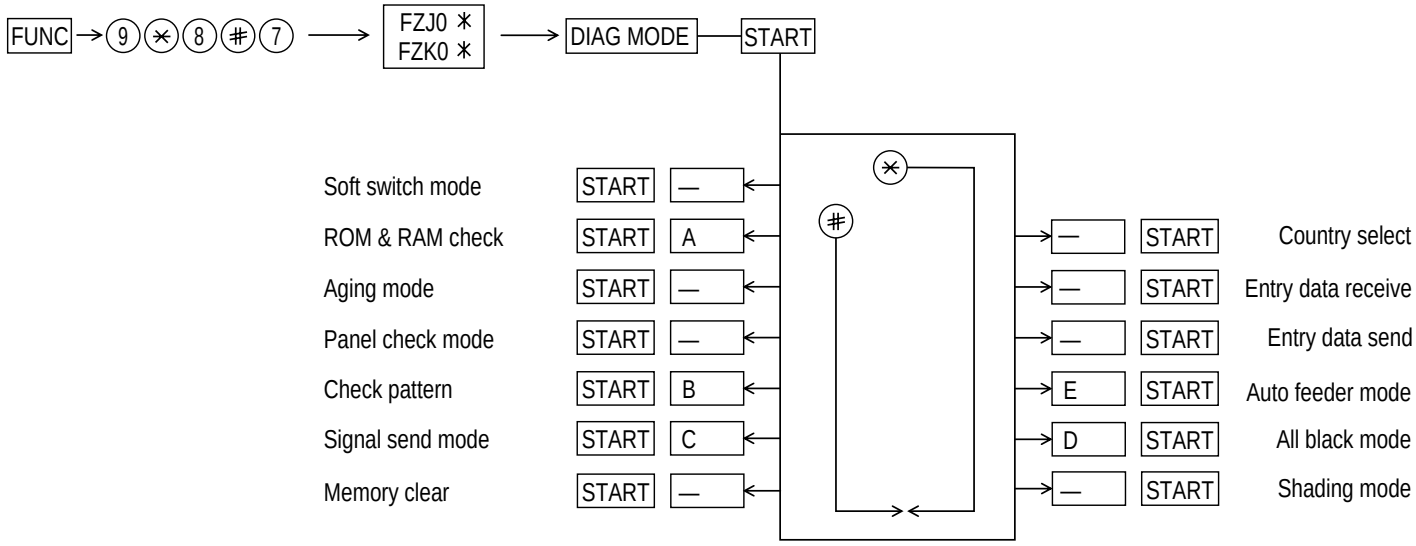
Press FUNC →9→ ✳ →8 →# →7 , and the following display will appear.

ROM Ver. FZJ0 ✳ (FZK0 ✳) After 2 sec: DIAG MODE

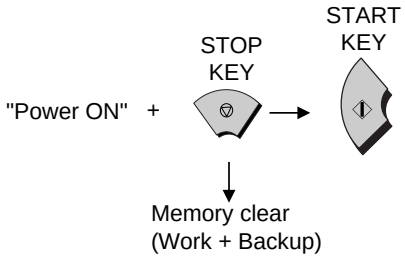
FZJ0 ✳ (UX-8TH/GQ-5TH)
FZK0 ✳ (UX-40TH/FO-50TH)

Then press the START key and country name selected by country select will appear. Select the desired item with the ✳ key or the # key or select with the direct key. Enter the mode with the START key.

(Diag•specifications)



If the diag mode cannot be set, repeat the diag mode operation, performing the following operation.
After the power is turned on and "WAIT A MOMENT" is indicated, press the STOP key.



In relation with the process response (request from Production Engineering) "WAIT A MOMENT" clock indication may appear depending on STOP key timing. If the STOP key is held down, "MEMORY CLEAR?" appears.

2. Diagnostic items

ITEM No.	DIRECT key	Contents	Function
1	—	SOFT SWITCH MODE	Soft switches are displayed and changed. List can be output.
2	A	ROM & RAM CHECK	ROM is sum-checked, and RAM is matched. Result list is output.
3	—	AGING MODE	10 sheets of check patterns are output every 5 minutes per sheet.
4	—	PANEL CKECK MODE	Panel keys are tested. Result list is output.
5	B	CHECK PATTERN	2 sheets of check patterns are output.
6	C	SIGNAL SEND MODE	Various signals of FAX communication are output.
7	—	MEMORY CLEAR	Back-up memory is cleared, and is set at delivery.
8	—	SHADING MODE	Shading compensation is performed in this mode.
9	D	ALL BLACK PRINT	To check the print head, whole dots are printed over the interval of 2 m.
10	E	AUTO FEEDER MODE	Insertion and discharge of document are tested.
11	—	ENTRY DATA SEND	Registered content is sent.
12	—	ENTRY DATA RECEIVE	Registered content is received, and its list is output.
13	—	COUNTRY SELECT	The software parameter that it agreed in each country name is set up.

3. Diagnostic items description

3. 1. Soft switch mode

The soft switches are provided so that each operation mode can be set by using the operation panel.

In this mode, these switches can be checked and set.

The contents of these switches are backed up.

The available soft switches are SW-A1 to SW-K1.

The content of soft switches is shown in page 2-5 to 2-17.

The contents are set to factory default settings.

3. 2. ROM & RAM check

ROM executes the sum check, and RAM executes the matching test. The result will be notified with the number of short sounds of the buzzer as well as by printing the ROM & RAM check list.
Number of short sounds of buzzer 0 → No error
1 → ROM error
2 → RAM error (32Kbyte)

3. 3. Aging mode

If any document is first present, copying will be executed sheet by sheet. If no document is present, the check pattern will be printed sheet by sheet. This operation will be executed at a rate of one sheet per 5minutes, and will be ended at a total of 10 sheets.

3. 4. Panel check mode

This mode is used to check whether each key operates properly or not. Press the key on the operation panel, and the key will be displayed on the display. Therefore, press all keys. At this time,finally press the STOP key.

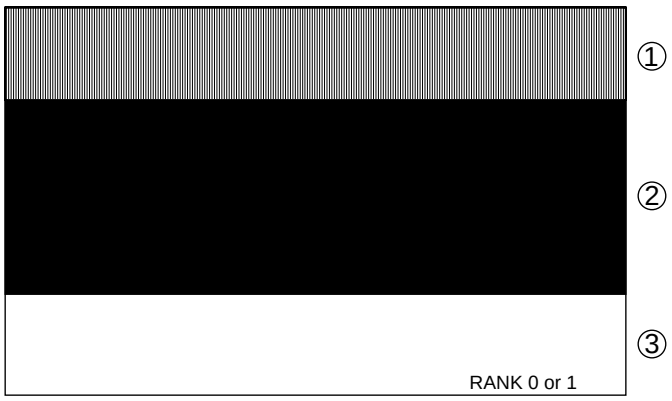
When the STOP key is pressed, the keys which are not judged as "pressed" will be printed on the result list.

- LED part of the contact image sensor (CIS) is kept on during the term from when "START" of the panel test mode to end with the STOP key.

3. 5. Check pattern

This mode is used to check the status of print head. Two sheets of check pattern are printed. The following information of check pattern is printed.

① Vertical stripes (alternate white and black lines) Approx. 35 mm
② Full black Approx. 70 mm
③ Full white Approx. 35 mm



Note:
There is a selection RANK 0 or 1 depending on resistance value of the thermal head. RANK 0 or RANK 1 is printed at the tail of check pattern to identify.

3. 6. Signal send mode

This mode is used to send various signals to the circuit during FAX communication. Every push of START key sends a signal in the following sequence. Moreover, the signal sound is also output to the speaker when the line monitor of the soft switch is on.

[1] No signal (CML signal turned on)
[2] 9600bps
[3] 7200bps
[4] 4800bps
[5] 2400bps
[6] 300bps (FLAG)
[7] 2100Hz (CED)
[8] 1100Hz (CNG)
[9] Pseudo Ring (models with auto TEL/FAX changeover function)
[10] END

3. 7. Memory clear

This mode is used to clear the backup memory and to reset to the factory default settings.
The content of each setting will be cleared.

Note: Be sure to execute the memory clear mode whenever you change the country select setting. The default settings of the soft switches vary according to the destinations. Therefore, if you do not execute the memory clear after changing the country select setting, some functions may not work.

3. 8. Shading mode

The mode is used for the shooting compensation. For reading, set up the special original paper.

The shooting compensation memorizes the reference data of white and black for reading.

Moreover, the memorized data is not erased even if memory clear mode is executed.

3. 9. All black print

This mode is used to check the state of the printing head and intentionally overheat it. Whole dots are printed over the interval of 2 m. If it is overheated or the printing sheet is jammed, press STOP key for the end.

3. 10. Auto feeder mode

In this mode, a document is inserted and discharged to check the auto feed function.

After this mode is started, set a document, and the document feed will be automatically tested.

3. 11. Entry data send

This mode is used to send the registered data to the other machine and to make the other machine copy the registered content. Before sending in this mode, it is necessary to set the other machine at the entry data receive mode.

The contents to be sent are as follows (the machine prints each list after the transmission has completed):

1. Telephone list data
2. Sender (cover sheet) register data
3. Optional setting content
4. Soft switch content
5. Junk fax number list
6. Country setting content

3. 12. Entry data receive

This mode is used to receive the registered data from the other machine and to make your machine register the received data. Before receiving in this mode, it is necessary to set the other machine at the entry data send mode.

After receiving is completed, the machine prints the following lists:

1. Telephone list data
2. Soft switch list
3. Junk fax number list

3. 13. Country select

This mode is used to set line connecting parameters which correspond to each destination.

When the country select mode is selected, and then the START key is pressed, the destination (country name) currently set will be displayed. By pressing the # or ⋇ key, selectable destinations (country names) are displayed. When the destination (country name) you want to choose is displayed, press the START key. Each parameter will be stored in RAM.

Destinations (Country names) you can select are as follows:

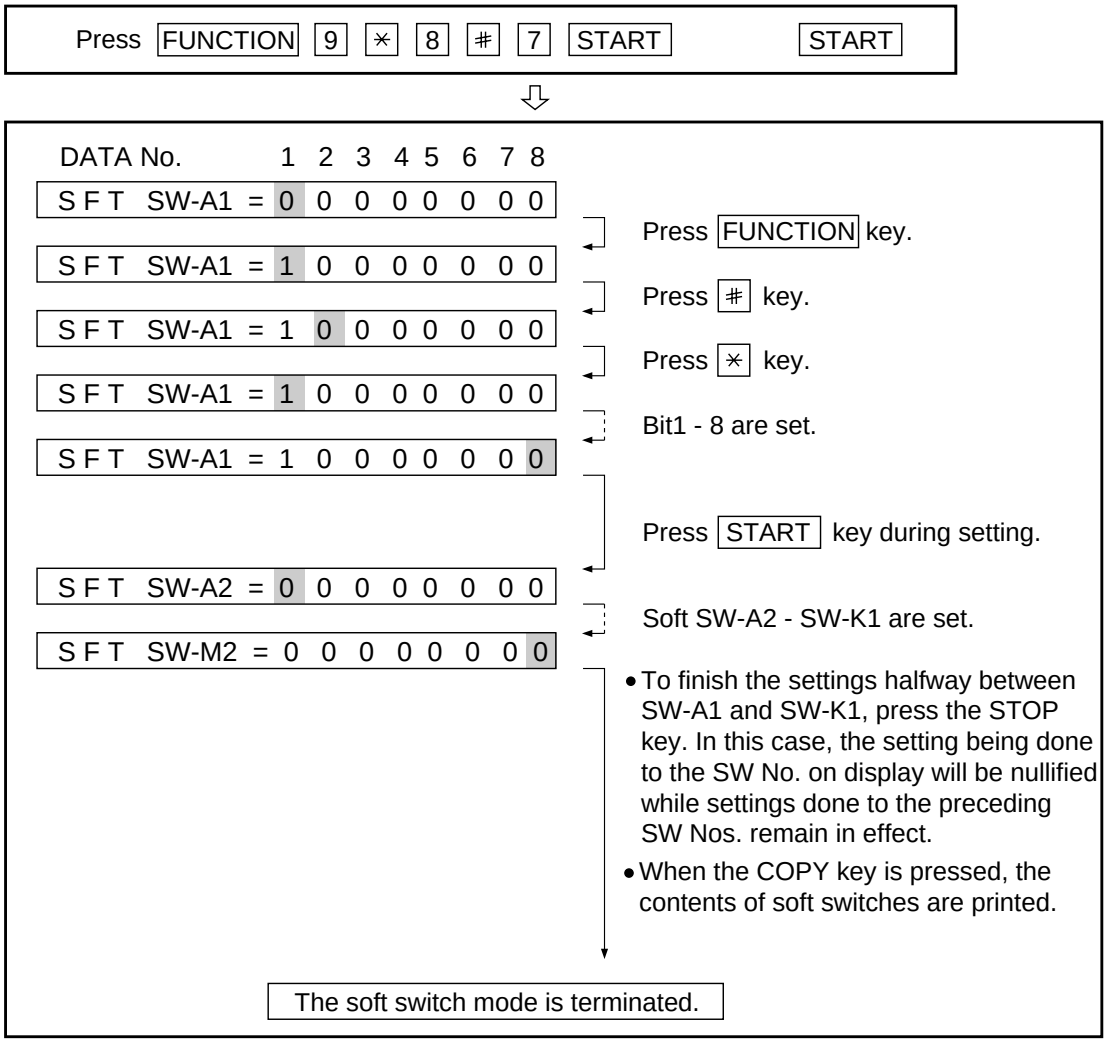
COUNTRY NAME		COUNTRY NAME	
HONG KONG	(HK)	TAIWAN	(AU)
INDIA	(IN)	THAILAND	(TH)
MALAYSIA	(MY)	GENERAL AREA	(GRU)
RUSSIAN	(RA)	GENERAL AREA	(GRH)
SINGAPORE	(SG)	AUSTRALIA	(A)
SOUTH AFRICA	(ZA)	CHINA	(CN)

Note: Be sure to execute the memory clear mode whenever you change the country select setting. The default settings of the soft switches vary according to the destinations. Therefore, if you do not execute the memory clear after changing the country select setting, some functions may not work.

Do not set a country select setting which is different from that of the destination of the machine. Some functions will not work because the function and the PWB specifications are different.

4. How to make soft switch setting

To enter the soft switch mode, press the following key entries in sequence.


Press FUNCTION 9 ⋇ 8 # 7 START START
DATA No. 1 2 3 4 5 6 7 8
S F T SW-A1 = 0 0 0 0 0 0 0 0
S F T SW-A1 = 1 0 0 0 0 0 0 0
S F T SW-A1 = 1 0 0 0 0 0 0 0
S F T SW-A1 = 1 0 0 0 0 0 0 0
S F T SW-A1 = 1 0 0 0 0 0 0 0
Press FUNCTION key.
Press # key.
Press ⋇ key.
Bit1 - 8 are set.
Press START key during setting.
S F T SW-A2 = 0 0 0 0 0 0 0 0
S F T SW-M2 = 0 0 0 0 0 0 0 0
Soft SW-A2 - SW-K1 are set.
• To finish the settings halfway between SW-A1 and SW-K1, press the STOP key. In this case, the setting being done to the SW No. on display will be nullified while settings done to the preceding SW Nos. remain in effect.
• When the COPY key is pressed, the contents of soft switches are printed.
The soft switch mode is terminated.

5. Soft switch description

• Soft switch

SW NO.	DATA NO.	ITEM	Switch setting and function					Initial setting	Remarks
			1				0		
SW I A1	1	Protect from echo	No				Yes	0	
	2	Forced 4800bps reception	Yes				No	0	
	3	Footer Print	Yes				No	0	
	4	Length limitation of copy/send/receive	No limit				Copy/Send:60cm Receive:1.5m	0	
	5	CSI transmission	Not transmitted				Transmitted	0	
	6	DIS receive acknowledgement during G3 transmission	Twice				NSF:Once DIS:Twice	0	
	7	Non modulated carrier for V29 transmission mode	Yes				No	0	
	8	Reserved						0	
SW I A2		Modem speed		V.29		V.27 ter			
				9600bps	7200bps	4800bps	2400bps		
	1		No. 1	0	0	0	0	0	
	2		No. 2	0	0	0	0	0	
	3		No. 3	0	1	1	0	0	
	4		No. 4	1	1	0	0	1	
	5	Reserved						0	
	6	H2 mode	No				Yes	0	
	7	Communication error treatment in RTN sending mode(Reception)	No communication error				Communication error	0	
	8	CNG transmission	No				Yes	0	
SW I A3		CED tone signal interval		1000ms	750ms	500ms	75ms		
	1		No. 1	1	1	0	0	0	
	2		No. 2	1	0	1	0	0	
	3	MR Coding	No				Yes	0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW I A4	1	Signal Transmission level	Binary input					0	
	2	(0~-31 dBm setting by 1dBm step)	No. =	16	8	4	2	0	
	3			1	2	3	4	1	
	4			0	0	1	0	0	
	5							0	
	6	Protocol monitor(Error print)	Printed at com. error				Not printed	0	
	7	Protocol monitor	Yes				No	0	
	8	Line monitor	Yes				No	0	
SW I A5		Digital equalization setting(Reception)		7.2km		0km			
	1		No. 1	1		0		1	
	2		No. 2	1		0		1	
		Digital equalization setting(Transmitter)		7.2km		0km			
	3		No. 3	1		0		0	
	4		No. 4	1		0		0	
		Digital equalization setting(Reception		7.2km		0km			
	5	for Caller ID)	No. 5	1		0		0	
	6		No. 6	1		0		0	
	7	Error criterion	10 ~ 20 %				5 ~ 10 %	0	
	8	Anti junk fax check	Yes				No	1	

SW NO.	DATA NO.	ITEM	Switch setting and function					Initial setting	Remarks
			1				0		
SW I A6	1	Auto gain control(MODEM)	Enable				Disable	1	
	2	End Buzzer	Yes				No	1	
	3	Disconnect the line when DIS is received in RX mode	No				Yes	1	
	4	Equalizer freeze control(MODEM)	On				Off	0	
	5	Equalizer freeze control 7200 bps only	No				Yes	0	
	6	CNG transmission in manual TX mode	Yes				No	1	
	7	Initial compression scheme for sharp fax in TX mode	MR mode				H2 mode	0	
	8	Modem speed automatic down when RX level is under -40dBm	Yes				No	0	
SW I A7		EOL detect timer		5 seconds	13 seconds	20 seconds	25 seconds		
	1		No. 1	0	0	1	1	0	
	2		No. 2	0	1	0	1	1	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW I B1	1	Hold key	Enable				Disable	1	
	2	Auto dial fax transmission by REDIAL key	Yes				No	0	
	3	Reserved						0	
	4	Recall interval	Binary input					0	
	5	(0~15.5min setting by 0.5min step)	No. =	16	8	4	2 1	1	
	6			4	5	6	7 8	0	
	7			0	1	0	1 0	1	
	8							0	
SW I B2	1	Recall times(0~15times setting)	Binary input					0	
	2		No. =	8	4	2	1	0	
	3			1	2	3	4	1	
	4			0	0	1	0	0	
	5	Dial tone detection(Before auto dial)	No				Yes	1	
	6	Reserved						0	
	7	Busy tone detection(After auto dial)	No				Yes	1	
	8	Busy tone detection pulse number (After auto dial)	4 pulses				2 pulses	0	
SW I B3		Waiting time after dialing		45 seconds	55 seconds	90 seconds	140 seconds		
	1		No. 1	0	0	1	1	0	
	2		No. 2	0	1	0	1	0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW I B4	1	Dial pausing(sec/pause)	4 sec				2 sec	0	
	2	Dial mode	Tone				Pulse	1	OPTION
	3	Pulse → Tone change function by ✳ key	Enable				Disable	1	
	4	Dial pulse make/break ratio(%)	40/60				33/67	1	
		Auto dial mode Delay timer of before line		0 second	1.5 seconds	3.0 seconds	4.5 seconds		
	5	connect	No. 5	0	0	1	1	1	
	6		No. 6	0	1	0	1	0	
	7	Reserved						0	
	8	Reserved						0	

SW NO.	DATA NO.	ITEM	Switch setting and function								Initial setting	Remarks
			1					0				
SW I B5		Auto dial mode Delay timer of after line		1.7s	2.0s	2.5s	3.0s	3.6s	4.0s	5.5s	7.0s	
	1	connect	No. 1	0	0	0	0	1	1	1	1	0
	2		No. 2	0	0	1	1	0	0	1	1	1
	3		No. 3	0	1	0	1	0	1	0	1	1
	4	Fax signal detection after telephone mode dial	Yes					No				0
	5	Reserved										0
	6	Reserved										0
	7	Reserved										0
	8	Reserved										0
SW I B6	1	DTMF signal transmission level	Binary input									0
	2	(Low frequency 0~15.5dBm setting	No. =	16	8	4	2	1				1
	3	by 0.5dBm step)		1	2	3	4	5				0
	4			0	1	0	1	0				1
	5											0
	6	Reserved										0
	7	Reserved										0
	8	Reserved										0
SW I B7	1	DTMF signal transmission level	Binary input									0
	2	(High frequency 0~15.5dBm setting	No. =	16	8	4	2	1				0
	3	by 0.5dBm step)		1	2	3	4	5				1
	4			0	0	1	1	1				1
	5											1
	6	Reserved										0
	7	Reserved										0
	8	Reserved										0
SW I C1		Reading Slice(Binary)		Factory setting		Dark		Light		Daker in dark		
	1		No. 1	0		0		1		1		0
	2		No. 2	0		1		0		1		0
		Reading Slice(Half tone)		Factory setting		Dark		Light		Daker in dark		
	3		No. 3	0		0		1		1		0
	4		No. 4	0		1		0		1		0
	5	Line density selection	Fine					Standard				0
	6	Reserved										0
	7	MTF correction in half tone mode	No					Yes				0
	8	Reserved										0
SW I D1	1	Number of rings for auto receive	Binary input									0
	2	(0~15rings setting)	No. =	8	4	2	1					0
	3			1	2	3	4					1
	4			0	0	1	0					0
	5	Automatic swiching manual to auto receive function	Yes					No				0
		CI detect frequency		As PTT		11.5Hz		13.0Hz		20.0Hz		
	6		No. 6	0		0		1		1		0
	7		No. 7	0		1		0		1		0
	8	Reserved										0

SW NO.	DATA NO.	ITEM	Switch setting and function		Initial setting	Remarks
			1	0		
SW I D2	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			0	
	6	Caller ID function	Yes	No	0	
	7	Reserved			0	
	8	Reserved			0	
SW I D3	1	CI off detection timer	Binary input		0	
	2	(0~1550ms setting by 50ms step)	No. = 16 8 4 2 1		1	
	3		1 2 3 4 5		1	
	4		0 1 1 1 0		1	
	5				0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			0	
SW I D4	1	DTMF type Caller ID RX level	Binary input		1	
	2	(0~-44dBm setting by 1dBm step)	No. = 32 16 8 4 2 1		0	
	3		1 2 3 4 5 6		1	
	4		1 0 1 1 0 0		1	
	5				0	
	6				0	
	7	Reserved			0	
	8	Reserved			0	
SW I E1		Pseudo ringing time at the TEL/FAX	9sec / 15sec / 30sec / 60sec / 90sec / 120sec / 150sec / 180sec			
	1	automatic switching mode	No. 1: 0 / 0 / 0 / 0 / 1 / 1 / 1 / 1		0	
	2		No. 2: 0 / 0 / 1 / 1 / 0 / 0 / 1 / 1		1	
	3		No. 3: 0 / 1 / 0 / 1 / 0 / 1 / 0 / 1		0	
	4	Number of CNG signal detection at the TEL/FAX automatic switching mode	Twice	Once	1	
	5	CNG detect time at TEL/FAX mode	3 sec	5 sec	0	
	6	Post answer tone(TEL/FAX mode)	No	Yes	1	
	7	Type of post answer tone	LA-SI-DO tone	800Hz single tone	1	
	8	Pseudo ringer ON/OFF cycle	1 sec ON / 4 sec OFF	1 sec ON / 2 sec OFF	0	
SW I E2	1	Pseudo ringer sound output level to the line	Binary input		1	
	2	(0~-15dBm setting by 1dBm step)	No. = 8 4 2 1		0	
	3		1 2 3 4		1	
	4		1 0 1 0		0	
	5	Post answer tone transmission level	Binary input		0	
	6	(0~-15dBm setting by 1dBm step)	No. = 8 4 2 1		1	
	7		5 6 7 8		0	
	8		0 1 0 0		0	
SW I E3	1	Disconnect the line when DTMF "#" is received during TEL/FAX automatic switching mode	Yes	No	0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			0	

SW NO.	DATA NO.	ITEM	Switch setting and function					Initial setting	Remarks
			1			0			
SW I F1		DTMF detection time		50ms	80ms	100ms	120ms		
	1		No. 1	0	0	1	1	0	
	2		No. 2	0	1	0	1	0	
	3	Protection of remote reception(5 ✳ ✳) detection	Yes			No		0	
	4	Remote reception with GE telephone	Compatible			Not compatible		1	
	5	Remote operation code figure by external	Binary input					0	OPTION
	6	TEL (0~9)	No. = 8 4 2 1					1	
	7		5 6 7 8					0	
	8		0 1 0 1					1	
SW I F2	1	CNG detection in STAND-BY mode	Yes			No		1	OPTION
		Number of CNG detect(AM mode)		1 pulse	2 pulses	3 pulses	4 pulses		
	2		No. 2	0	0	1	1	0	
	3		No. 3	0	1	0	1	1	
		Number of CNG detect(STAND-BY mode)		1 pulse	2 pulses	3 pulses	4 pulses		
	4		No. 4	0	0	1	1	0	
	5		No. 5	0	1	0	1	1	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW I G1	1	Quiet detect time	Binary input					0	OPTION
	2	(0~15sec setting by 1sec step)	No. = 8 4 2 1					1	
	3		1 2 3 4					0	
	4		0 1 0 0					0	
	5	Quiet detect start timing	Binary input					0	OPTION
	6	(0~15sec setting by 1sec step)	No. = 8 4 2 1					1	
	7		5 6 7 8					0	
	8		0 1 0 1					1	
SW I G2	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW I G3		OGM detect timer		Not work	100ms	200ms	300ms		
	1		No. 1	0	0	1	1	0	
	2		No. 2	0	1	0	1	1	
		Section time of quiet detection		30s	40s	50s	60s		
	3		No. 3	0	0	1	1	0	
	4		No. 4	0	1	0	1	1	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW I G4	1	Quiet detect level setting	Binary input					1	
	2	(0~-44dBm setting by 1dBm step)	No. = 32 16 8 4 2 1					0	
	3		1 2 3 4 5 6					1	
	4		1 0 1 1 0 0					1	
	5							0	
	6							0	
	7	Fax switching when A.M. full	Yes			No		0	OPTION
	8	Reserved						0	

SW NO.	DATA NO.	ITEM	Switch setting and function					Initial setting	Remarks
			1				0		
SW I H1	1	Busy tone continuous sound detect time	5 sec				10 sec	1	
	2	Reserved						0	
	3	Busy tone detect continuation sound detect	No				Yes	0	
	4	Reserved						0	
	5	Busy tone detect intermittent sound detect	No				Yes	0	
		Busy tone detection pulse number		2 pulses	4 pulses	6 pulses	10 pulses		
	6		No. 6	0	0	1	1	0	
	7		No. 7	0	1	0	1	1	
	8	Reserved						0	
SW I H2		Busy tone detection ON/OFF time(Lower limit)		150 ms	200 ms	250 ms	350 ms		
	1		No. 1	0	0	1	1	0	
	2		No. 2	0	1	0	1	0	
		Busy tone detection ON/OFF time(Upper limit)		650 ms	900 ms	1500 ms	2700 ms		
	3		No. 3	0	0	1	1	0	
	4		No. 4	0	1	0	1	1	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW I I1	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW I I2	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW I I3	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW I I4	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	

SW NO.	DATA NO.	ITEM	Switch setting and function					Initial setting	Remarks
			1				0		
SW I I5	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW I I6	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW I I7	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW I I8	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW I J1	1	Sender's phone number setting	Cannot change				Change allowed	0	
	2	Reserved						0	
		Ringer volume		Off	Low	Middle	High		OPTION
	3		No. 3	0	0	1	1	1	
	4		No. 4	0	1	0	1	0	
		Speaker volume		Low	Low	Middle	High		OPTION
	5		No. 5	0	0	1	1	1	
	6		No. 6	0	1	0	1	0	
	7	Polling key (UX-40/FO-50 only)	Yes				No	0	OPTION
	8	Reserved						0	
SW I J2	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Saving energy start timing	5 sec				180 sec	0	
	8	Saving energy mode	Enable				Disable	1	

SW NO.	DATA NO.	ITEM	Switch setting and function					Initial setting	Remarks
			1		0				
SW I J3		Communication results printout (Transaction report)		Error	Send only	Always	No print		OPTION
	1		No. 1	0	0	0	0	0	
	2		No. 2	0	0	1	1	0	
	3		No. 3	0	1	0	1	0	
	4	Time format	12 hour		24 hour			0	
	5	Date format	Month-Day-Year		Day-Month-Year			0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW I K1	1	Entering diag mode by pressing SPEED key	Yes		No			0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	

• Soft switch function description

SW-A1 No. 1 Protect from echo

Used to protect from echo in reception.

SW-A1 No. 2 Forced 4800BPS reception

When line conditions warrant that receptions take place at 4800 BPS repeatedly.
It may improve the success of receptions by setting at 4800BPS.
This improves the receiving document quality and reduces handshake time due to fallback during training.

SW-A1 No. 3 Footer print

When set to "1", the date of reception, the sender machine No., and the page No. are automatically recorded at the end of reception.

SW-A1 No. 4 Length limitation of copy/send/receive

Used to set the maximum page length.
To avoid possible paper jam, the page length is normally limited to 0.6 meter for copy or transmit, and 1.5 meters for receive.
It is possible to set it to "No limit" to transmit a long document, such as a computer print form, etc. (In this case, the receiver must also be set to no limit.)

SW-A1 No. 5 CSI transmission

(CSI TRANSMISSION) is a switch to set whether the machine sends or does not send the signal (CSI signal) informing its own telephone No. to the remote fax machine when information is received. When "nonsending" is set, the telephone No. is not output on the remote transmitting machine if the remote transmitting machine has the function to display or print the telephone No. of receiving machine, using this CSI signal.

SW-A1 No. 6 DIS receive acknowledgment during G3 transmission

Used to make a choice of whether reception of DIS(NSF) is acknowledged after receiving two DISs(NSFs) or receiving one DIS (two NSFs). It may be useful for overseas communication to avoid an echo suppression problem, if set to 1.

SW-A1 No. 7 Non modulated carrier for V29 transmission mode

Though transmission of a nonmodulated carrier is not required for transmission by the V29 modem according to the CCITT Recommendation, it may be permitted to a send nonmodulated carrier before the image signal to avoid an echo suppression problem.
It may be useful for overseas communication to avoid an echo suppression problem, if set to 1.

SW-A1 No. 8 Reserved

Set to "0".

SW-A2 No. 1 ~ No. 4 Modem speed

Used to set the initial modem speed. The default is 9600BPS.
It may be necessary to program it to a slower speed when frequent line fallback is encountered, in order to save the time required for fallback procedure.

SW-A2 No. 5 Reserved

Set to "0".

SW-A2 No. 6 H2 mode

Used to determine reception of H2 mode (15 sec transmission mode). When set to OFF, H2 mode reception is inhibited even though the transmitting machine has H2 mode function.

SW-A2 No. 7 Communication error treatment in RTN sending mode (Reception)

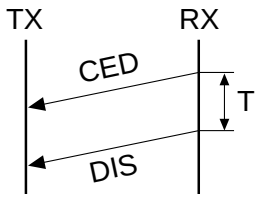
Used to determine communication error treatment when RTN is sent by occurrence of a received image error in G3 reception. When it is set to "1", communication error is judged as no error.

SW-A2 No. 8 CNG transmission

When set to "0", this model allows CNG transmission by pressing the Start key in the key pad dialing mode. When set to "1", CNG transmission in the key pad dialing mode cannot be performed. In either case, CNG transmission can be performed in the auto dial mode.

SW-A3 No. 1, No. 2 CED tone signal interval

For international communication, the 2100Hz CED tone may act as an echo suppression switch, causing a communication problem.
Though SW-A3 No. 1 and No. 2 are normally set to 0, this selfing is used to change the time between the CED tone signal to eliminate the communication caused by echo.



SW-A3 No. 3 MR coding

Used to select the MR coding enable or disable.

SW-A3 No. 4 ~ No. 8 Reserved

Set to "0".

SW-A4 No. 1 ~ No. 5 Signal transmission level (0~-31 dBm setting by 1dBm step)

Used to control the signal transmission level in the range of -0dB to -31dB.
The factory setting is at -10dB (MODEM output).

SW-A4 No. 6 Protocol monitor (Error Print)

If set to "1", protocol is printed at communication error.

SW-A4 No. 7 Protocol monitor

Normally set to "0". If set to "1", communication can be checked, in case of trouble, without using a G3 tester or other tools.
When communication FSK data transmission or reception is made, the data is taken into the buffer. When communication is finished, the data is analyzed and printed out. When data is received with the line monitor (SW4-No. 8) set to "1" the reception level is also printed out.

SW-A4 No. 8 Line monitor

Normally set to "0". If set to "1", the transmission speed and the reception level are displayed on the LCD. Used for line tests.

SW-A5 No. 1, No. 2 Digital equalization setting (Reception)

Line equalization when reception is to be set according to the line characteristics.
Setting should be made according to distance between the telephone and the telephone company central switching station.

SW-A5 No. 3, No. 4 Digital equalization setting (Transmitter)

Line equalization when transmission is to be set according to the line characteristics.
Setting should be made according to distance between the telephone and the telephone company central switching station.

SW-A5 No. 5, No. 6 Digital equalization setting (Reception for Caller ID)

Line equalization when reception for CALLER ID is to be set according to the line characteristics.
Setting should be made according to distance between the telephone and the telephone company central switching station.

SW-A5 No. 7 Error criterion

Used to select error criterion for sending back RTN when receiving image data.

SW-A5 No. 8 Anti junk fax check

When using the Anti junk fax function, set to "1".

SW-A6 No. 1 Auto gain control(MODEM)

When this mode is enabled, if the reception signal level is under 31dBm, the modem itself controls the signal gain automatically.

SW-A6 No. 2 End buzzer

Setting this bit to 0 will disable the end buzzer (including the error buzzer/ on-hook buzzer).

SW-A6 No. 3 Disconnect the line when DIS is received in RX mode

Bit1 = 0 : When DIS signal is received during RX mode, disconnect the line immediately.
Bit1 = 1 : When DIS signal is received during RX mode, wait for the next signal.

SW-A6 No. 4 Equalizer freeze control (MODEM)

This switch is used to perform reception operation by fixing the equalizer control of modem for the line which is always in unfavorable state and picture cannot be received.
* Usually, the control is executed according to the state of line where the equalizer setting is changed always.

SW-A6 No.5 Equalizer freeze 7200BPS only

Setting which specifies SW-A6 No. 4 control only in condition of 7200BPS modem speed.

SW-A6 No. 6 CNG transmission in manual TX mode

When set to "1", fax transmit the CNG signal in case of manual transmissiom mode (User press the START key after waiting for the fax answering signal from handset or speaker).

SW-A6 No. 7 Initial compression scheme for sharp fax in TX mode

When set to "0", if the other fax is Sharp model, fax transmit the document by H2 mode.
When set to "1", even if the other fax is Sharp model, fax transmit the document by MR mode.

SW-A6 No. 8 Modem speed automatic down when RX level is under -40dBm

When set to "1", if fax signal level is under -40dBm during reception, machine selects the slower modem speed automatically.
It is effective when noises occur on the received document due to the long distance communications.

SW-A7 No. 1, No. 2 EOL (End Of Line) detect timer

Used to make a choice of whether to use the 5 or 13 or 20 or 25 seconds timer for detection of EOL.
This is effective to override communication failures with some facsimile models that have longer EOL detection.

SW-A7 No. 3 ~ No. 8 Reserved

Set to "0".

SW-B1 No. 1 Hold key

Used to set YES/NO of holding function by the HOLD key.

SW-B1 No. 2 Auto dial fax transmission by REDIAL key

When set to "1", if original documents are set to the feeder and you press REDIAL key, machine will dial and transmit the ducuments automatically.
When set to "0", operator needs to press the START key after FAX reception tone is heard.

SW-B1 No. 3 Reserved

Set to "0".

SW-B1 No. 4 ~ No. 8 Recall interval (0~15.5min setting by 0.5min step)

Choice is made for a redial interval for speed and rapid dial calls.
Use a binary number to program this with 0.5min steps. If set to 0 accidentally, 0.5min will be assumed.

SW-B2 No. 1 ~ No.4 Recall times (0~15times setting)

Choice is made as to how many redials there should be.

SW-B2 No. 5 Dial tone detection (Before auto dial)

Used to set YES/NO of dial tone detection in auto dialing.

SW-B2 No. 6 Reserved

Set to "0".

SW-B2 No. 7 Busy tone detection (After auto dial)

Used to set YES/NO of busy tone detection after auto dialing.

SW-B2 No. 8 Busy tone detection pulse number (After auto dial)

Used for detection of busy tone in 2 or 4 pulses.

SW-B3 No. 1, No. 2 Waiting time after dialing

This is waiting time for the opponent's signals after dialing.
45 / 55 / 90 / 140 seconds settings are available.

SW-B3 No. 3 ~ No. 8 Reserved

Set to "0".

SW-B4 No. 1 Dialing pause (sec/pause)

Pauses can be inserted between telephone numbers of direct dial connection. Selection of 4 sec or 2 sec pause is available.

SW-B4 No. 2 Dial mode

When using the pulse dial, set to 0. When using the tone dial, set to 1.

SW-B4 No. 3 Pulse → Tone change function by ✳ key

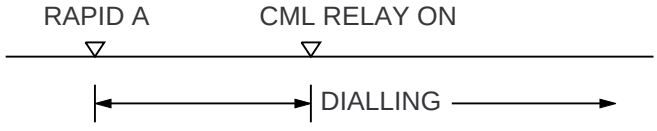
When setting to 1, the mode is changed by pressing the ✳ key from the pulse dial mode to the tone dial mode.

SW-B4 No. 4 Dial pulse make/break ratio (%)

When using the 33% make ratio pulse dial, set to 0.
When using the 40% make ratio pulse dial, set to 1.

SW-B4 No. 5, No. 6 Auto dial mode Delay timer of before line connect

Delay time between the dial key input and line connection under the auto dial mode.



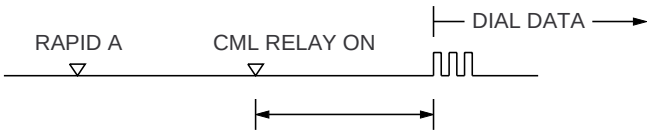
No.5=0 No.6=0 : 0sec
No.5=0 No.6=1 : 1.5sec
No.5=1 No.6=0 : 3.0sec
No.5=1 No.6=1 : 4.5sec

SW-B4 No. 7, No. 8 Reserved

Set to "0".

SW-B5 No. 1 ~ No. 3 Auto dial mode Delay timer of after line connect

Delay time between the line connection and dial data output under the auto dial mode.
This setting is available when dial tone detection(SW-B2 No. 5) is set to "NO".



No. 1	No. 2	No. 3	
0	0	0	1.7sec
0	0	1	2.0sec
0	1	0	2.5sec
0	1	1	3.0sec
1	0	0	3.6sec
1	0	1	4.0sec
1	1	0	5.5sec
1	1	1	7.0sec

SW-B5 No. 4 Fax signal detection after telephone mode dial

When set to "1", if machine detects the fax answering signal after telephone calling (handset off-hook or speaker mode dial), machine starts to receive the documents automatically.

SW-B5 No. 5 ~ No. 8 Reserved

Set to "0".

SW-B6 No. 1 ~ No. 5 DTMF signal transmission level (Low frequency 0~15.5dBm setting by 0.5dBm step)

The transmission level of DTMF signal is adjusted. (lower frequency)

00000: 0dBm

↓

11111: -15.5 dBm (-0.5dBm x 31)

SW-B6 No. 6 ~ No. 8 Reserved

Set to "0".

SW-B7 No. 1 ~ No. 5 DTMF signal transmission level (High frequency 0~15.5dBm setting by 0.5dBm step)

The transmission level of DTMF signal is adjusted. (higher frequency)

00000: 0dBm

↓

11111: -15.5 dBm (-0.5dBm x 31)

SW-B7 No. 6 ~ No. 8 Reserved

Set to "0".

SW-C1 No. 1, No. 2 Reading slice (Binary)

Used to determine the set value of reading density in standard/fine/super-fine mode.
The standard setting is "00"(Factory setting is "00").

SW-C1 No. 3, No. 4 Reading slice (Half tone)

Used to determine the set value of reading density in half tone mode.
The standard setting is "00"(Factory setting is "00").

SW-C1 No. 5 Line density selection

Used to set the transmission mode which is automatically selected when the Resolution key is not pressed. In the copy mode, however, the fine mode is automatically selected unless the Resolution key is manually set to another mode.

SW-C1 No. 6 Reserved

Set to "0".

SW-C1 No. 7 MTF correction in half tone mode

This allows selection of MTF correction (dimness correction) in the half tone mode.
When "NO" (=1) is selected, the whole image becomes soft and mild. Clearness of characters will be reduced. Normally set to "YES" (=0).

SW-C1 No. 8 Reserved

Set to "0".

SW-D1 No.1 ~ No. 4 Number of rings for auto receive (0~15rings setting)

When the machine is set in the auto receive mode, the number of rings before answering can be selected. It may be set from one to nine rings using a binary number. Since the facsimile telephone could be used as an ordinary telephone if the handset is taken off the hook, it should be programmed to the user's choice. If the soft switch was set to 1, direct connection is made to the facsimile.
If a facsimile calling beep was heard when the handset is taken off the hook, press the START key and put the handset on the hook to have the facsimile start receiving. If it was set to 0 accidentally, receive ring is set to 1.

NOTE: If the machine is set to answer after a large number of rings, it may not be able to receive faxes successfully.
If you have difficulty receiving faxes, reduce the number of rings to a maximum of 5.

SW-D1 No. 5 Automatic switching manual to auto receive function

This soft switch is used to select whether the machine should switch to the auto receive mode after 5 rings in the manual receive mode or remain in the same way as SW-D1 No. 1, No. 2, No. 3 and No. 4 "0"1"0"1"(5 rings).

SW-D1 No. 6, No. 7 CI detect frequency

Detection frequency of ring signal for auto reception is set.

When set to No. 6=0, No. 7=0, frequency is set to PTT recommendation.
When set to No. 6=0, No. 7=1, frequency is set to 11.5Hz or more.
When set to No. 6=1, No. 7=0, frequency is set to 13.0Hz or more.
When set to No. 6=1, No. 7=1, frequency is set to 20.0Hz or more.

SW-D1 No. 8 Reserved

Set to "0".

SW-D2 No. 1 ~ No. 5 Reserved

Set to "0".

SW-D2 No. 6 Caller ID Function

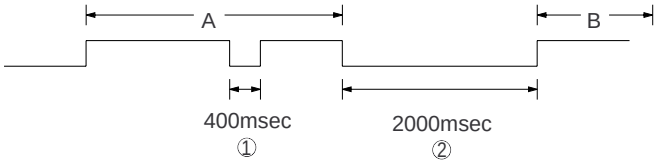
Used for Caller ID function.

SW-D2 No. 7, No. 8 Reserved

Set to "0".

SW-D3 No. 1 ~ No. 5 CI off detection timer (0~1550ms setting by 50ms step)

Set the minimum time period of CI signal interruption which affords to be judged as a CI OFF section with 50ms steps.
(Example)



0 1 1 1 0 (50ms~14) : 700ms(CI interruption>700ms:Judged as a CI OFF section)
The section 1 is not judged as a CI OFF section, the CI signal A is counted as one signal. The section 2 is judged as a CI OFF section, the CI signal B is considered as the second signal.

0 0 1 1 1 (50ms~7) : 350ms(CI interruption>350ms:J udged as a CI OFF section)
The section 1 is judged as a CI OFF section, and the CI signal A is counted as two signals. The section 2 is judged as a CI OFF section, and the CI signal B is considered as the third signal.

SW-D3 No. 6 ~ No. 8 Reserved

Set to "0".

SW-D4 No. 1 ~ No. 6 DTMF type Caller ID RX level (0~-44dBm setting by 1dBm step)

This is used for DTMF type Caller ID detection level setting.

SW-D4 No. 7, No. 8 Reserved

Set to "0".

SW-E1 No. 1 ~ No. 3 Pseudo ringing time at the TEL/FAX automatic switching mode

Choice is made as to how long to rumble the dummy ringer on TEL/FAX automatic switching mode.

SW-E1 No. 4 Number of CNG signal detection at the TEL/FAX automatic switching mode

Used for detection of CNG in one tone or two tones in the TEL/FAX automatic switching mode.

SW-E1 No. 5 CNG detect time at TEL/FAX mode

The switch which sets the time from the start of CNG detection to the end of detection.

SW-E1 No. 6 Post answer tone (TEL/FAX mode)

When set to "0", machine send the tones in TEL/FAX auto changeover mode.

SW-E1 No. 7 Type of post answer tone

When set to "0", post answer tone is 800Hz single tone.
When set to "1", post answer tone is 880Hz/988Hz/1046Hz(LA-SI-DO) tone.

SW-E1 No. 8 Pseudo ringer ON/OFF cycle

When set to "0", pseudo ringer is 1 sec ON and 2 sec OFF cycles.
When set to "1", pseudo ringer is 1 sec ON and 4 sec OFF cycles.

SW-E2 No. 1 ~ No. 4 Pseudo ringer sound output level to the line (0~-15dBm setting by 1dBm step)

Used to adjust the sound volume of pseudo ringer to the line (ring back tone) generated on selecting TEL/FAX.

SW-E2 No. 5 ~ No. 6 Post answer tone transmission level (0~-15dBm setting by 1dBm step)

Used to adjust the sound volume of post answer tone to the line generated on selecting TEL/FAX.

SW-E3 No. 1 Disconnect the line when DTMF "#" is received during TEL/FAX automatic switching mode

When set to "1", if machine detects the DTMF code # during phone/fax automatic switching mode, stop the pseudo ringer and disconnect the line.
This effect when operator want to stop the pseudo ringer from extension phone connected with parallel.

SW-E3 No. 2 ~ No. 8 Reserved

Set to "0".

SW-F1 No. 1, No. 2 DTMF detection time

Used to set detect time of DTMF (Dual Tone Multi Frequency) used in remote reception(5 ✻ ✻).
The longer the detect time is, the less the error detection is caused by noises.

SW-F1 No. 3 Protection of remote reception (5 ✻ ✻) detection

Used to set the function of remote reception (5 ✻ ✻). When set to "1", the remote reception function is disabled.

SW-F1 No. 4 Remote reception with GE telephone

"1": Compatible with TEL mode by GE

"0": Not compatible

- When sending (5 ✻ ✻) for remote reception with a GE manufactured telephone remote reception may not take place because of special specifications in their DTMF.
  To overcome this, a soft SW is provided to change the modem setting to allow for remote reception.
- If this soft SW is set to "1", other telephone sets may be adversely affected.

SW-F1 No. 5 ~ No. 8 Remote operation code figure by external TEL (0~9)

Remote operation codes can be changed from 0 through 9. If set to greater than 9, it defaults to 9. The "5 ✻ ✻ " is not changed.
Ex- 7 ✻ ✻ (Default : 5 ✻ ✻)

SW-F2 No. 1 CNG detection in STAND-BY mode

When setting to "1", the CNG signal detection function during standby stops.

SW-F2 No. 2, No. 3 Number of CNG detect (AM mode)

Used for detection of CNG in 1 to 4 pulses.

SW-F2 No. 4, No. 5 Number of CNG detect (STAND-BY mode)

Used for detection of CNG in 1 to 4 pulses.

SW-F2 No. 6 ~ No. 8 Reserved

Set to "0".

SW-G1 No. 1 ~ No. 4 Quiet detect time (0~15sec setting by 1sec step)

When an answering machine is connected, if a no sound state is detected for a certain period of time, the machine judges it as a transmission from a facsimile machine and automatically switches to the FAX mode.

SW-G1 No. 5 ~ No. 8 Quiet detect start timing (0~15sec setting by 1sec step)

Inserts a pause before commencing quiet detection.

SW-G2 No. 1 ~ No. 8 Reserved

Set to "0".

SW-G3 No. 1, No. 2 OGM detect timer

This is used to change the OGM detection time for answering machine hook up detection.

SW-G3 No. 3, No. 4 Section time of quiet detection

The switch which sets the time from the start of detection function to the end of the function.

SW-G3 No. 5 ~ No. 8 Reserved

Set to "0".

SW-G4 No. 1 ~ No. 6 Quiet detect level setting (0~-44dBm setting by 1dBm step)

This is used to change the quiet detect level setting.

If quiet detection is difficult due to noise, reduce this setting level.

(Example)

Factory setting : 1 0 1 1 0 0 (- 44dBm)

↓

1 0 1 0 0 0 (- 40dBm)

SW-G4 No. 7 Fax switching when A.M. full

If the answering machine's memory (tape) is full and there is no response, the machine automatically switches to Fax reception.

SW-G4 No. 8 Reserved

Set to "0".

SW-H1 No. 1 Busy tone continuous sound detect time

Set detecting time busy tone continuous sound for 5 seconds or 10 seconds.

SW-H1 No. 2 Reserved

Set to "0".

SW-H1 No. 3 Busy tone detect continuation sound detect

Used to select detection of the continuous sound of certain frequency.

SW-H1 No. 4 Reserved

Set to "0".

SW-H1 No. 5 Busy tone detect intermittent sound detect

Used to select detection of the intermittent sound of certain frequency.

SW-H1 No. 6, No. 7 Busy tone detection pulse number

Used to set detection of Busy tone intermittent sounds.

SW-H1 No. 8 Reserved

Set to "0".

SW-H2 No. 1, No. 2 Busy tone detection ON/OFF time (Lower limit)

The initial value of detection is set according to electric condition.

The set value is changed according to the local switch board. (Erroneous detection of sound is reduced.)

If erroneous detection is caused by sound, etc., adjust the detection range.

The lower limit can be set in the range of 150msec to 350msec.

SW-H2 No. 3, No. 4 Busy tone detection ON/OFF time (Upper limit)

Similarly to SW-H2 No. 1, No. 2, the set value can be varied.
The upper limit can be set in the range of 650msec to 2700msec.

SW-H2 No. 5 ~ No. 8 Reserved

Set to "0".

SW-I1 No. 1 ~ No. 8 Reserved

Set to "0".

SW-I2 No. 1 ~ No. 8 Reserved

Set to "0".

SW-I3 No. 1 ~ No. 8 Reserved

Set to "0".

SW-I4 No. 1 ~ No. 8 Reserved

Set to "0".

SW-I5 No. 1 ~ No. 8 Reserved

Set to "0".

SW-I6 No. 1 ~ No. 8 Reserved

Set to "0".

SW-I7 No. 1 ~ No. 8 Reserved

Set to "0".

SW-I8 No. 1 ~ No. 8 Reserved

Set to "0".

SW-J1 No. 1 Sender's phone number setting

Used to make a choice of whether the registered sender's phone number can be changed or not. If the switch is set to "1", new registration of the sender's phone number is disabled to prevent accidental wrong input.

SW-J1 No. 2 Reserved

Set to "0".

SW-J1 No. 3, No. 4 Ringer Volume

Used to adjust ringing volume.

SW-J1 No. 5, No. 6 Speaker Volume

Used to adjust sound volume from a speaker.

SW-J1 No. 7 Polling key (UX-40/FO-50 only)

If this switch is set to 1, the last of Rapid key works as polling key.

SW-J1 No. 8 Reserved

Set to "0".

SW-J2 No. 1 ~ No. 6 Reserved

Set to "0".

SW-J2 No. 7 Saving energy start timing

Used to set the time between the machine's stand-by state (clock indication) after operation and saving energy mode.
It is possible to set the time to either 5 sec or 180 sec (default).

SW-J2 No. 8 Saving energy mode

Used to select whether to make the saving energy mode valid or not.

SW-J3 No. 1 ~ No. 3 Communication results printout (Transaction report)

It is possible to obtain transaction results after each communication.
Normally,the switch is set (No. 1 : 0, No. 2 : 0, No. 3 : 0) so that the transaction report is produced only when a communication error is encountered.
If No.1 was set to 0 and No. 2 to 1 and No. 3 to 0, the transaction report will be produced every time a communicaion is done, even if the communicaion was successful.
Setting No. 1 to 0 and No. 2 to 1 and No. 3 to 1 will disable this function. No transaction report printed.

SW-J3 No. 4 Time format

When set to "0", 24hour time format is used.
When set to "1", 12hour time format is used.

SW-J3 No. 5 Date format

When set to "0", Day-Month-Year format is used.
When set to "1", Month-Day-Year format is used.

SW-J3 No. 6 ~ No. 8 Reserved

Set to "0".

SW-K1 No. 1 Entering diag mode by pressing SPEED key

A bit which is used in the production process only. When the SPEED key is pressed, the switch is changed from the stand-by state to the diag mode.

SW-K1 No. 2 ~ No. 8 Reserved

Set to "0".

[3] Troubleshooting

Refer to the following actions to troubleshoot any of the problems mentioned in 1-4.

[1] A communication error occurs.

[2] Image distortion produced.

[3] Unable to do overseas communication.

[4] Communication speed slow due to FALLBACK.

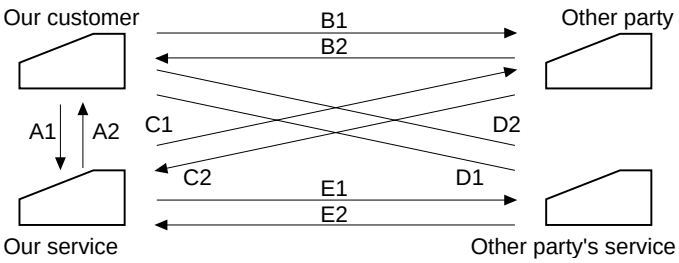
- Increase the transmission level SOFT SWITCH A4-1, 2, 3, 4, 5. May be used in case [1] [2] [3].
- Decrease the transmission level SOFT SWITCH A4-1, 2, 3, 4, 5. May be used in case [3].
- Apply line equalization SOFT SWITCH A5-1, 2. May be used in case [1] [2] [3] [4].
- Slow down the transmission speed SOFT SWITCH A2-1, 2, 3, 4. May be used in case [2] [3].
- Replace the TEL/LIU PWB. May be used in all cases.
- Replace the control PWB. May be used in all cases.

* If transmission problems still exist on the machine, use the following format and check the related matters.

TO: ATT: Ref.No. :
CC: ATT: Date :
FM: Dept :
Sign :

***** Facsimile communication problem *****				Ref.No.:
From: Mr.		Fax Tel No.:		Date:
Our customer	Name			Tel No.
	Address			Fax No.
	Contact person			Model name
Other party	Name			Tel No.
	Address			Fax No.
	Contact person			Model name
Problem mode	Line: Domestic / international		Model: G3	Phase: A, B, C, D.
	Reception / Transmission	Automatic reception / Manual reception		
		Automatic dialing / Manual dialing / Others		
Frequency:		%	ROM version:	

Confirmation item



Please mark problem with an X.
No problem is: 0.

A1	A2	B1	B2	C1	C2	D1	D2	E1	E2

Transmission level setting is ( ) dB at our customer

Transmission level ( ) dBm
Reception level ( ) dBm
By level meter at B1 and B2

Comment	
Countermeasure	

**** Please attach the G3 data and activity report on problem. ****

* Please complete this report before calling the "TAC" hotline if problem still occurs.

[4] Error code table

1. Communication error code table

G3 Transmission

Code	Final received signal	Error Condition (Receiver side)
0	Incomplete signal frame	Cannot recognize bit stream after flag
1	NSF, DIS	Cannot recognize DCS signal by echo etc. Cannot recognize NSS signal (FIF code etc)
2	CFR	Disconnects line during reception (carrier missing etc)
3	FTT	Disconnects line by fall back
4	MCF	Disconnects line during reception of multi page Cannot recognize NSS, DCS signal in the case of mode change
5	PIP or PIN	The line is hung up without replying to telephone request from the receiving party.
6	RTN or RTP	Cannot recognize NSS, DCS signal after transmit RTN or RTP signal.
7	No signal or DCN	No response in receiver side or DCN signal received* (transmitter side)
8	–	Owing to error in some page the error could not be corrected although the specified number of error retransmissions were attempted.
11	–	Error occurred after or while reception by the remote (receiving) machine was revealed to be impossible.
12	–	Error occurred just after fallback.
13	–	Error occurred after a response to retransmission end command was received.

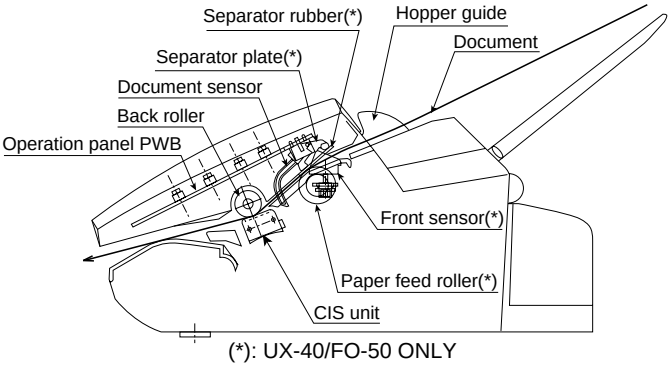
G3 Reception

Code	Final received signal	Error Condition (Receiver side)
0	Incomplete signal frame	Cannot recognize bit stream after flag
1	NSS, DCS	Cannot recognize CFR or FTT signal Disconnects line during transmission (line error)
2	NSC, DTC	Cannot recognize NSS signal (FIF code etc)
3	EOP	Cannot recognize MCF, PIP, PIN, RTN, RTP signal
4	EOM	Cannot recognize MCF, PIP, PIN, RTN, RTP signal in the case of mode change
5	MPS	The line is hung up without replying to communication request.
6	PR1-Q	Cannot recognize PIP, PIN signal in the case of TALK request
7	No signal or DCN	No response in transmitter (cannot recognize DIS signal) or DCN signal received* (receiver side)
8	–	Error occurred upon completion of reception of all pages.
9	–	Error occurred when mode was changed or Transmission/Reception switching was performed.
10	–	Error occurred during partial page or physical page reception.
11	–	Error occurred after or during inquiry from the remote (transmitting) machine as to whether reception is possible or not.
12	–	Error occurred during or just after fallback.
13	–	Error occurred after the retransmission end command was received.

CHAPTER 3. MECHANISM BLOCKS

[1] General description

1. Document feed block and diagram



(*): UX-40/FO-50 ONLY

Fig. 1

2. Document feed operation

1) The original, which is set in the document hopper, feeds automatically when the front sensor is activated. This in turn activates the pulse motor which drives the document supply roller. The document stops when the lead edge is detected by the document sensor.
2) The lead edge of the original is fed a specified number of pulses after the lead edge of the document is detected for the reading process to begin.
3) The trailing edge of the original is fed a specific number of pulses after the trailing edge of the document deactivates the document sensor. The read process then stops and the original is discharged.
4) When the front sensor is in the OFF state (any document is not set up in the hopper guide), the drive will be stopped when the document is discharged.

3. Hopper mechanism

3-1. General view

Fig. 2

The hopper section contains document guides that are used to adjust the hopper to the width of the original document. This ensures that the original feeds straight into the fax machine for scanning.
Document width: 148 mm to 216 mm (A5 longitudinal size to Letter longitudinal size)
NOTE: Adjust the document guide after setting up the document.

3-2. Automatic document feed

1) Use of the paper feed roller and separation rubber plate ensures error-free transport and separation of documents. The plate spring presses the document to the paper feed roller to assure smooth feeding of the document.
2) Document separation method: Separation rubber plate

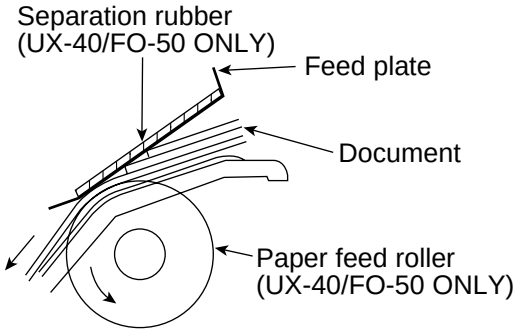


Fig. 3

3-3. Documents applicable for automatic feed

	4x6 series (788mm x 1091mm x 1000mm sheets)		Square meter series	
	Minimum	Maximum	Minimum	Maximum
Feeder capacity	5 sheets, max.			
Paper weight	45kg	69.2kg	52g/m^2	80g/m^2
Paper thickness (ref.)	0.06mm	0.09mm	0.06mm	0.09mm
Paper size	148mm x 140mm ~ A4 (210mm x 297mm), Letter (216mm x 279mm)			

NOTE: Double-side coated documents and documents on facsimile recording paper should be inserted manually. The document feed quantity may be changed according to the document thickness.

Documents corresponding to a paper weight heavier than 69.2kg (80g/m^2) and lighter than 135kg (157g/m^2) are acceptable for manual feed.

Documents heavier than 135kg in terms of the paper weight must be duplicated on a copier to make it operative in the facsimile.

3-4. Loading the documents

1) Make sure that the documents are of suitable size and thickness, and free from creases, folds, curls, wet glue, wet ink, clips, staples and pins.
2) Place documents face down in the hopper.
   i) Adjust the document guides to the document size.
   ii) Align the top edge of documents and gently place them into the hopper. The first page under the stack will be taken up by the feed roller to get ready for transmission.

NOTES: 1) Curled edge of documents, if any, must be straightened out.
2) Do not load the documents of different sizes and/or thicknesses together.

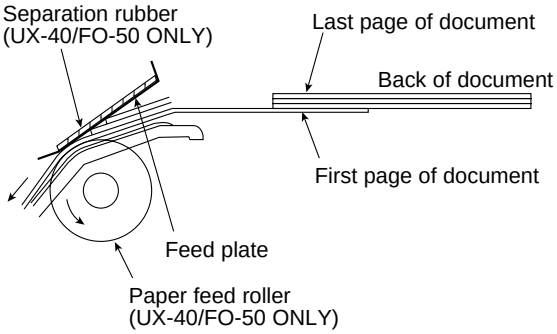


Fig. 4

3-5. Documents requiring use of document carrier

1) Documents smaller than 148mm x 140mm.
2) Documents thinner than the thickness of 0.06mm.
3) Documents containing creases, folds, or curls, especially those whose surface is curled (maximum allowable curl is 5mm).
4) Documents containing tears.
5) Carbon-backed documents. (Insert a white sheet of paper between the carbon back and the document carrier to avoid transfer of carbon to the carrier.)
6) Documents containing an easily separable writing material (e.g., those written with a lead pencil).
7) Transparent documents.
8) Folded or glued documents.

Document in document carrier should be inserted manually into the feeder.

4. Document release

4-1. General

To correct a jammed document or to clean the document running surface, pull the insertion side of document center of the operation panel. To open the upper document guide, the operation panel must be opened first.

4-2. Cross section view

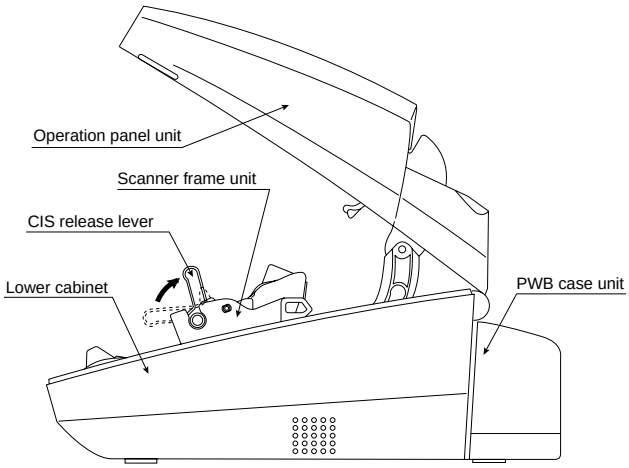


Fig. 5

5. Recording block

5-1. General view

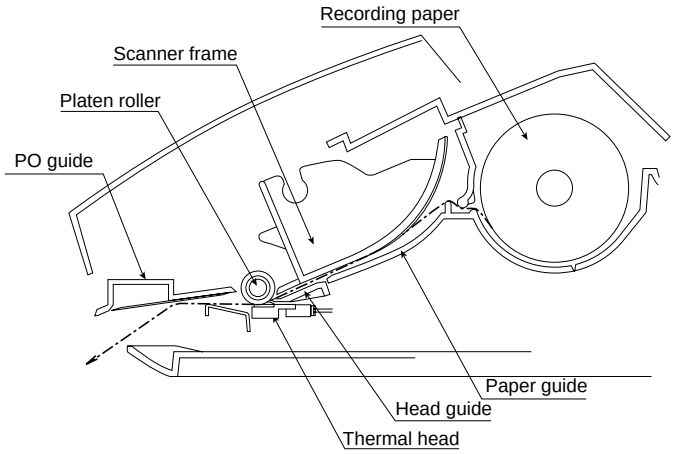


Fig. 6

5-2. Driving

Via the pulse motor gear shaft, the reduction gear, and the recording paper feed gear, rotation of the pulse motor is conveyed to the recording paper feed roller to feed the recording paper.

5-3. Recording

Use of a thermal head permits easier maintenance and low operating costs.

1) Thermal head

The thermal head consists of 1728-dot heat elements arranged in a single row and has the resolution of 8 dots/mm. The maximum recording speed is 10ms/line. The thermal head also incorporates a 1728-dot shift register latch and output control driver circuit. Low power consumption is achieved by dividing the head into nine segments.

2) Structure of the recording mechanism

Recording is accomplished by pressing the thermal head on the recording paper against the platen roller.

The main scan (horizontal) is electronically achieved, while the subscan (vertical) is achieved by moving the recording paper by the recording platen roller.

Usually, the cause for uneven print tone is caused by misalignment of the thermal head or uneven contact with the roller.

It can by checked in the following manner.

1) Check if the thermal head power and signal cables are properly routed.
2) Check that the thermal head pivot moves smoothly up and down.
3) Check that the thermal head support bracket is secured without any play.
4) Check to see that the recording platen roller has proper concentricity, in the case of a print tone variation evenly repeated down the page.
5) Replace the thermal head with a new one and check to see if the same trouble occurs.

[2] Disassembly and assembly procedures

- This chapter mainly describes the disassembly procedures. For the assembly procedures, reverse the disassembly procedures.
- Easy and simple disassembly/assembly procedures of some parts and units are omitted. For disassembly and assembly of such parts and units, refer to the Parts List.
- The numbers in the illustration, the parts list and the flowchart in a same section are common to each other.
- To assure reliability of the product, the disassembly and the assembly procedures should be performed carefully and deliberately.

1 Paper support guide, handset cover and scanner unit

Parts list (Fig. 1)

No.	Part name	Q'ty	No.	Part name	Q'ty
1	Mechanism unit	1	7	Screw (3×8)	1
2	Screw (3×12)	2	8	Handset cover	1
3	Paper support guide	1	9	Hook switch lever	1
4	Paper sensor lever	1	10	Screw (3×12)	2
5	Paper sensor lever spring	1	11	Connector	2
6	Panel stopper	1	12	Scanner unit	1

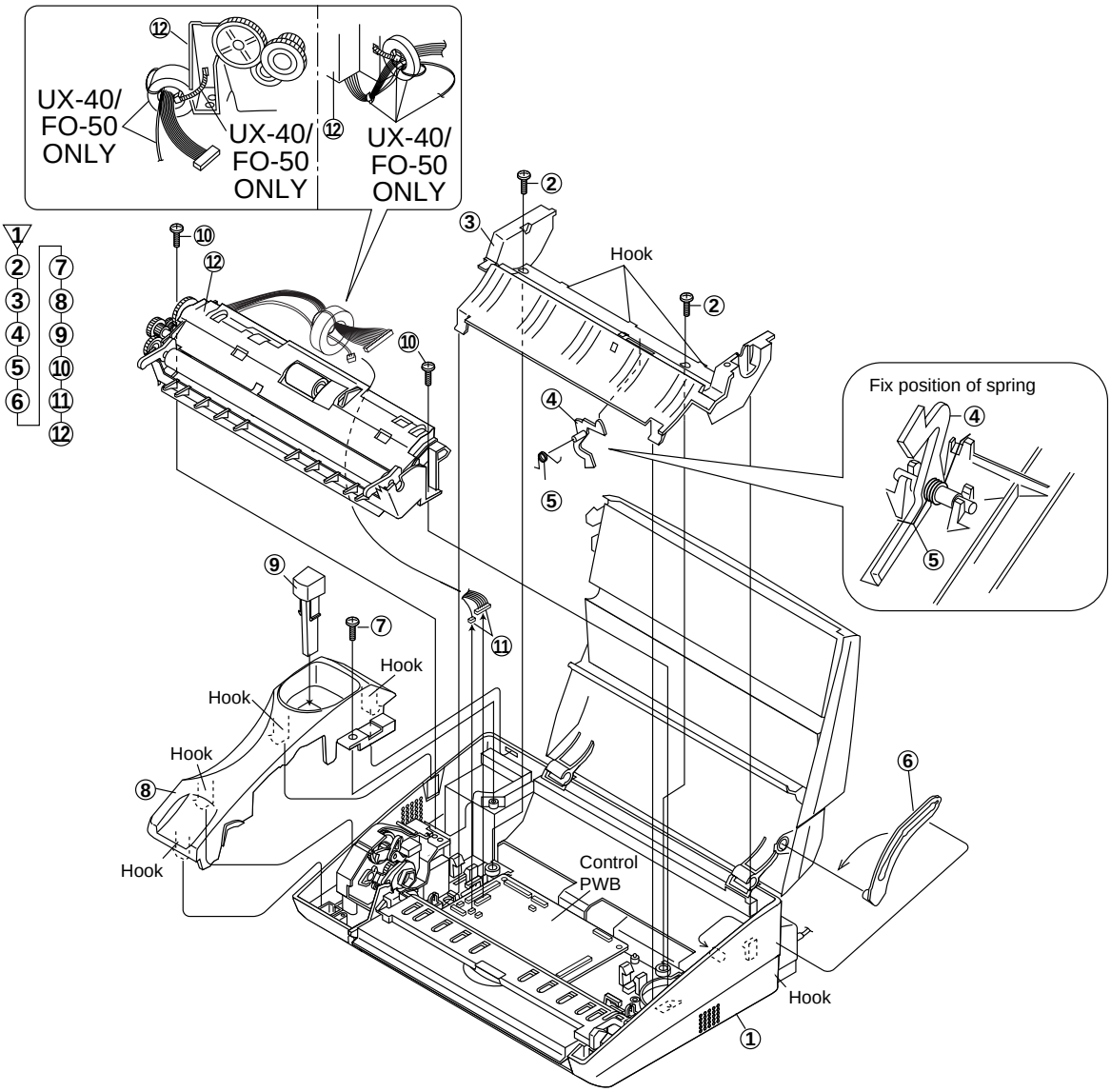


Fig. 1

2 CIS unit and scanner frame

Parts list (Fig. 2)

No.	Part name	Q'ty	No.	Part name	Q'ty
1	Document guide lower	1	11	Feed roller (UX-40/FO-50 only)	1
2	Back roller gear	1	12	Connector	1
3	Back roller bearing, left	1	13	CIS support, left	1
4	CIS release lever, left	1	14	CIS support, right	1
5	Back roller	1	15	CIS unit	1
6	CIS release lever, right	1	16	CIS protect sheet	1
7	Back roller bearing, right	1	17	CIS spring	2
8	Reduction gear, 17/28z	1	18	Connector (UX-40/FO-50 only)	1
9	Reduction gear, 17/23z (UX-40/FO-50 only)	1	19	Front sensor (UX-40/FO-50 only)	1
10	Feed roller shaft (UX-40/FO-50 only)	1	20	Scanner frame	1

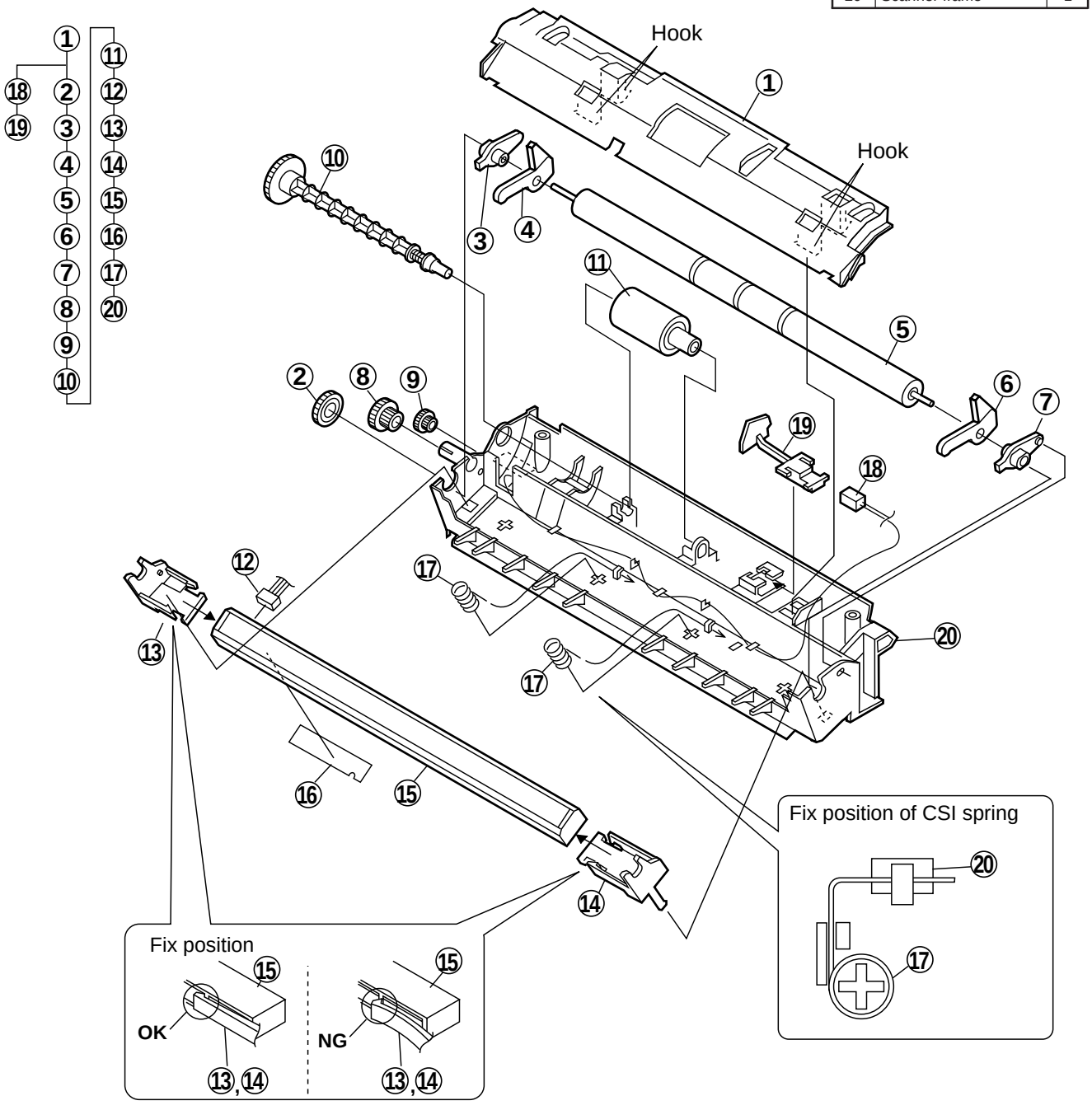


Fig. 2

3 Operation panel unit, drive unit, hopper guide

Parts list (Fig. 3)

No.	Part name	Q'ty	No.	Part name	Q'ty
1	Mechanism unit	1	9	Operation panel unit/ document guide upper unit	1
2	Connector	2			
3	Operation panel unit	1	10	Screw	1
4	Connector	2	11	Pinion gear	1
5	Screw (3×12)	1	12	Hopper spring	1
6	Drive unit	1	13	Hopper guide, left	1
7	Screw (3×8)	2	14	Hopper guide, right	1
8	Hopper guide unit	1	15	Hopper guide	1

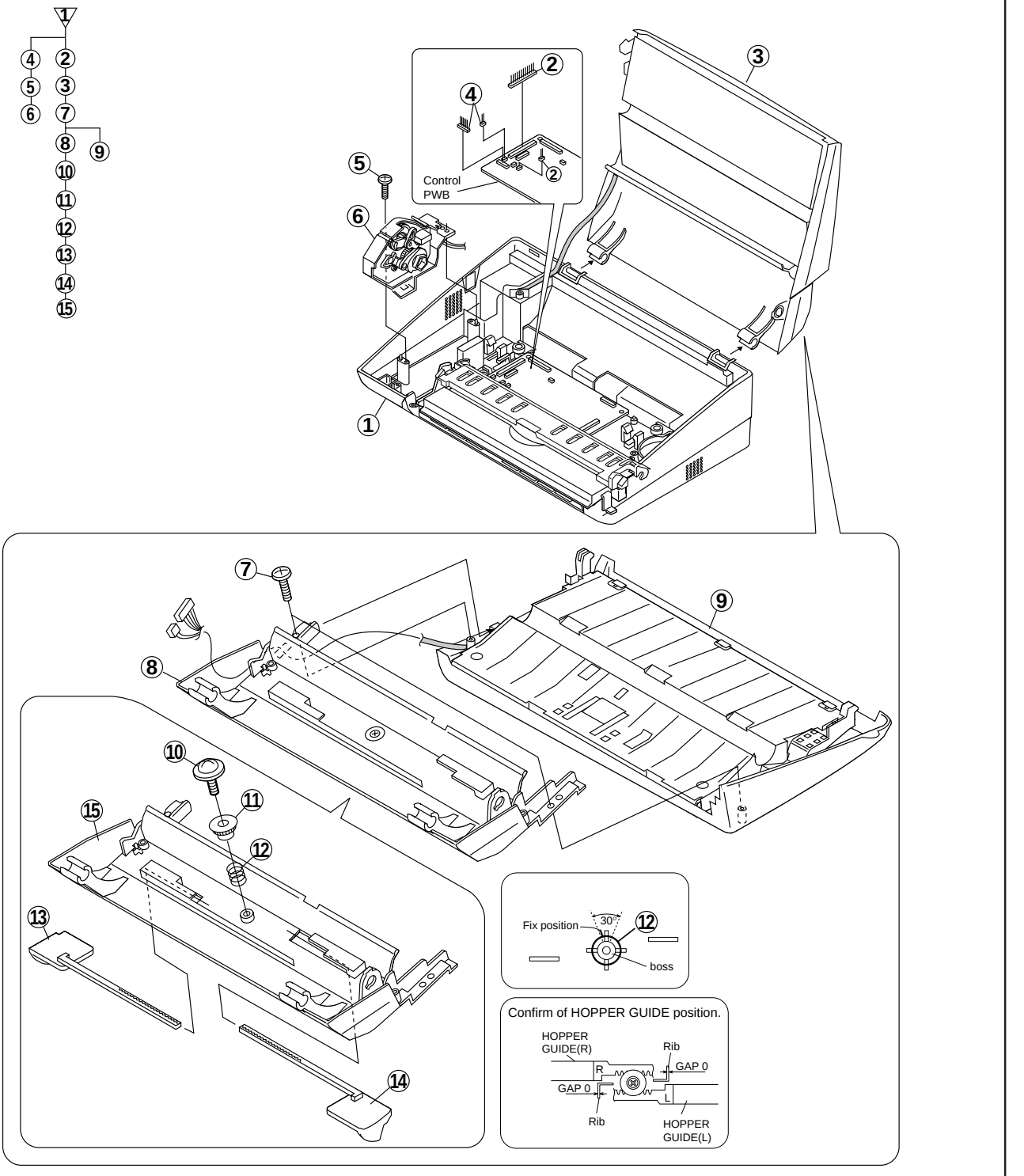


Fig. 3

4 Upper cabinet and document guide upper

Parts list (Fig. 4)

No.	Part name	Q'ty	No.	Part name	Q'ty
1	Screw (3×8)	2	12	Document guide piece (UX-8/GQ-5 only)	1
2	Connector	1			
3	Door sensor	1	13	Document guide upper	1
4	Blind sheet	1	14	Screw (2×6)	3
5	Document guide upper unit	1	15	Connector	1
6	Operation panel unit	1	16	Operation panel PWB unit	1
7	Separate spring	1	17	Direct key (UX-40/FO-50 only)	1
8	Separator plate	1			
9	Separator rubber	1	18	Start key	1
10	Feed spring	1	19	12 key	1
11	Feed plate	1	20	Upper cabinet	1

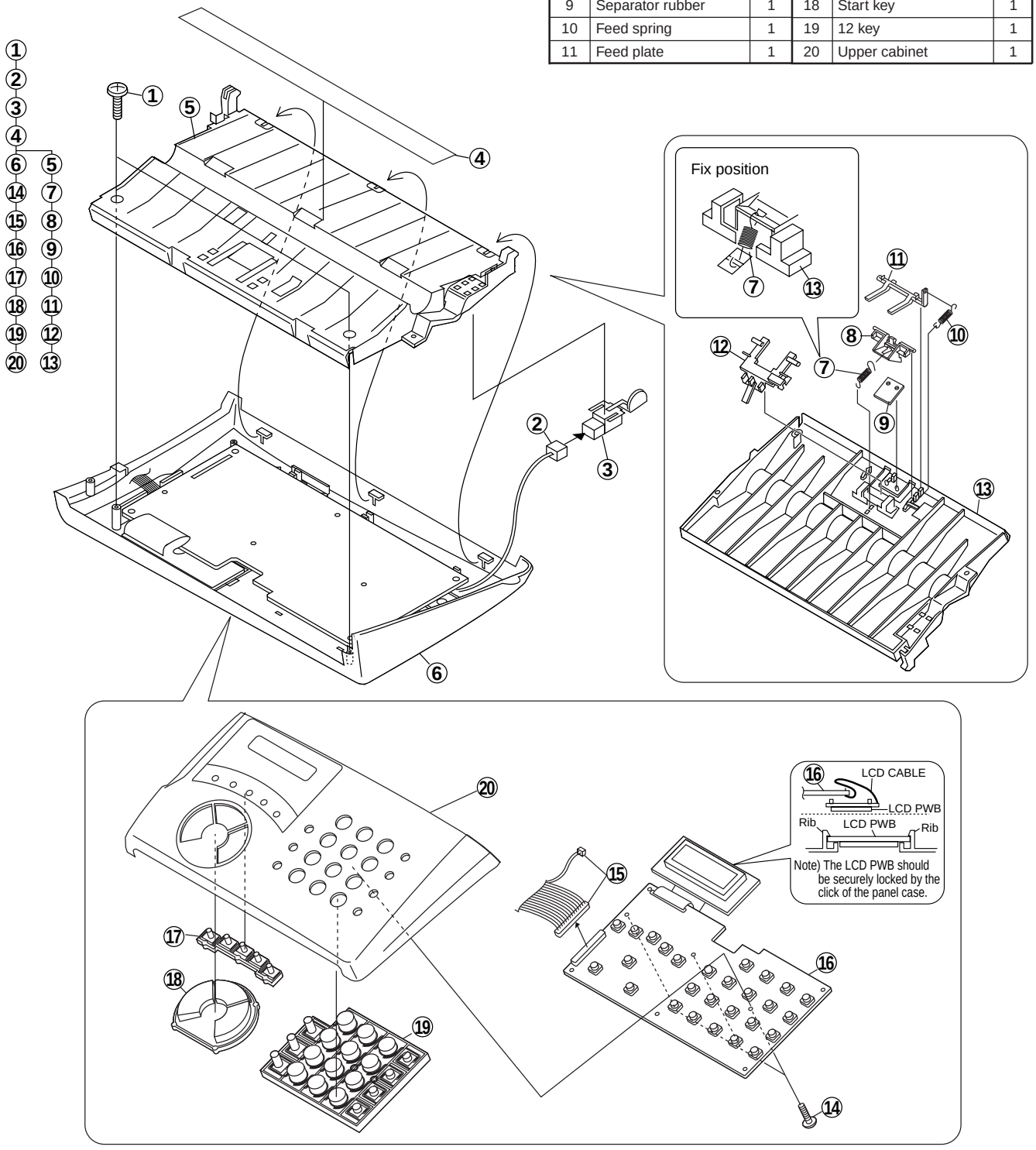


Fig. 4

5 Drive unit frame

Parts list (Fig. 5)

No.	Part name	Q'ty	No.	Part name	Q'ty
1	Cam spring	1	10	Planet lever B	1
2	Cam switch	1	11	Planet gear	1
3	Cam gear	1	12	Planet gear spring	1
4	Mode lever	1	13	Reduction gear, 17/30Z	1
5	Planet gear	1	14	Reduction gear, 17/43Z	1
6	Planet gear spring	1	15	Idler gear, 25Z	1
7	Planet lever A	1	16	Screw (3×8)	1
8	Planet gear	1	17	Motor	1
9	Planet gear spring	1	18	Motor plate	1
			19	Drive unit frame	1

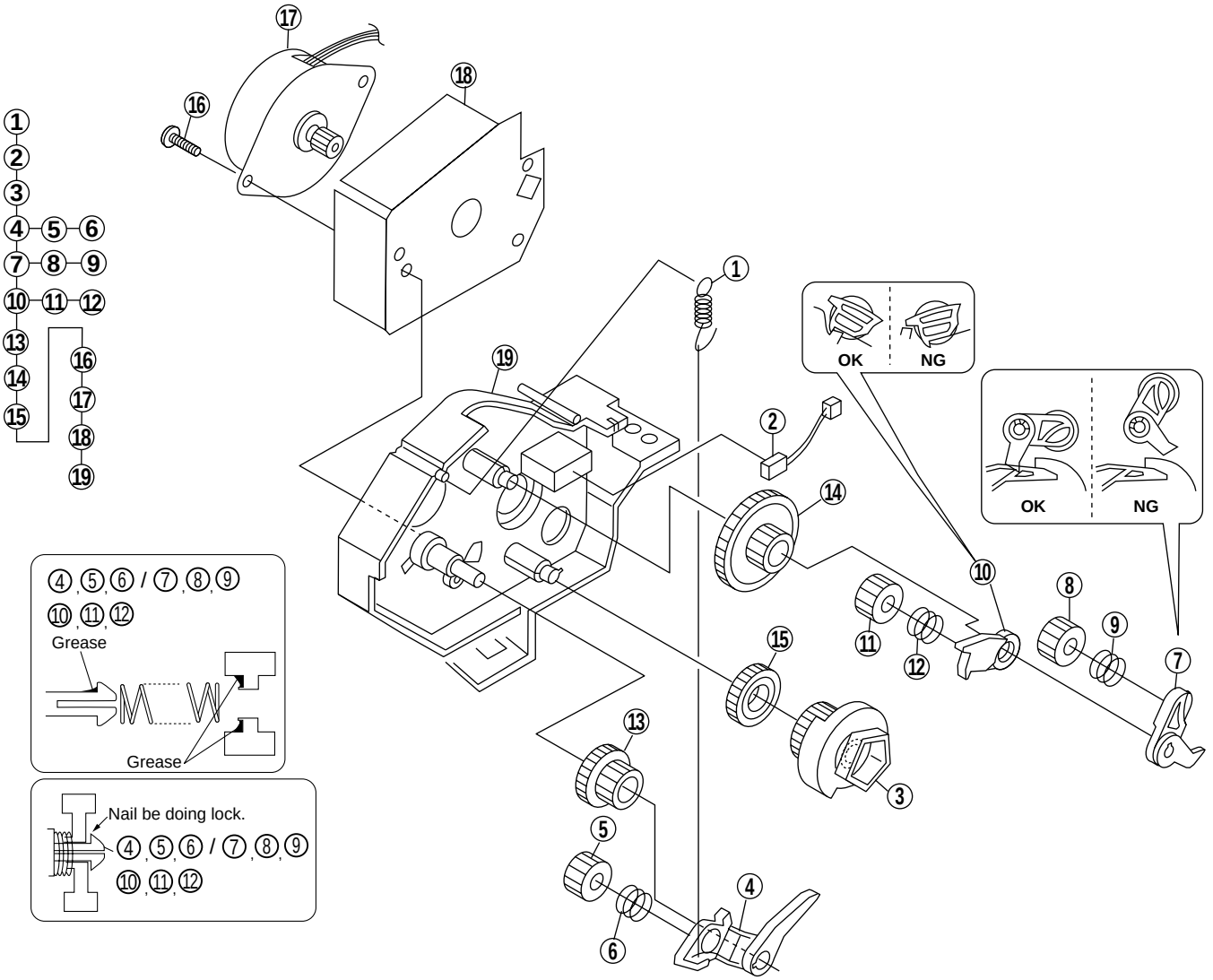


Fig. 5

6 Release lever, head guide and PO guide

Parts list (Fig. 6)

No.	Part name	Q'ty
1	Mechanism unit	1
2	Screw (3×8)	1
3	PO guide	1
4	Release lever	1
5	Head guide	1

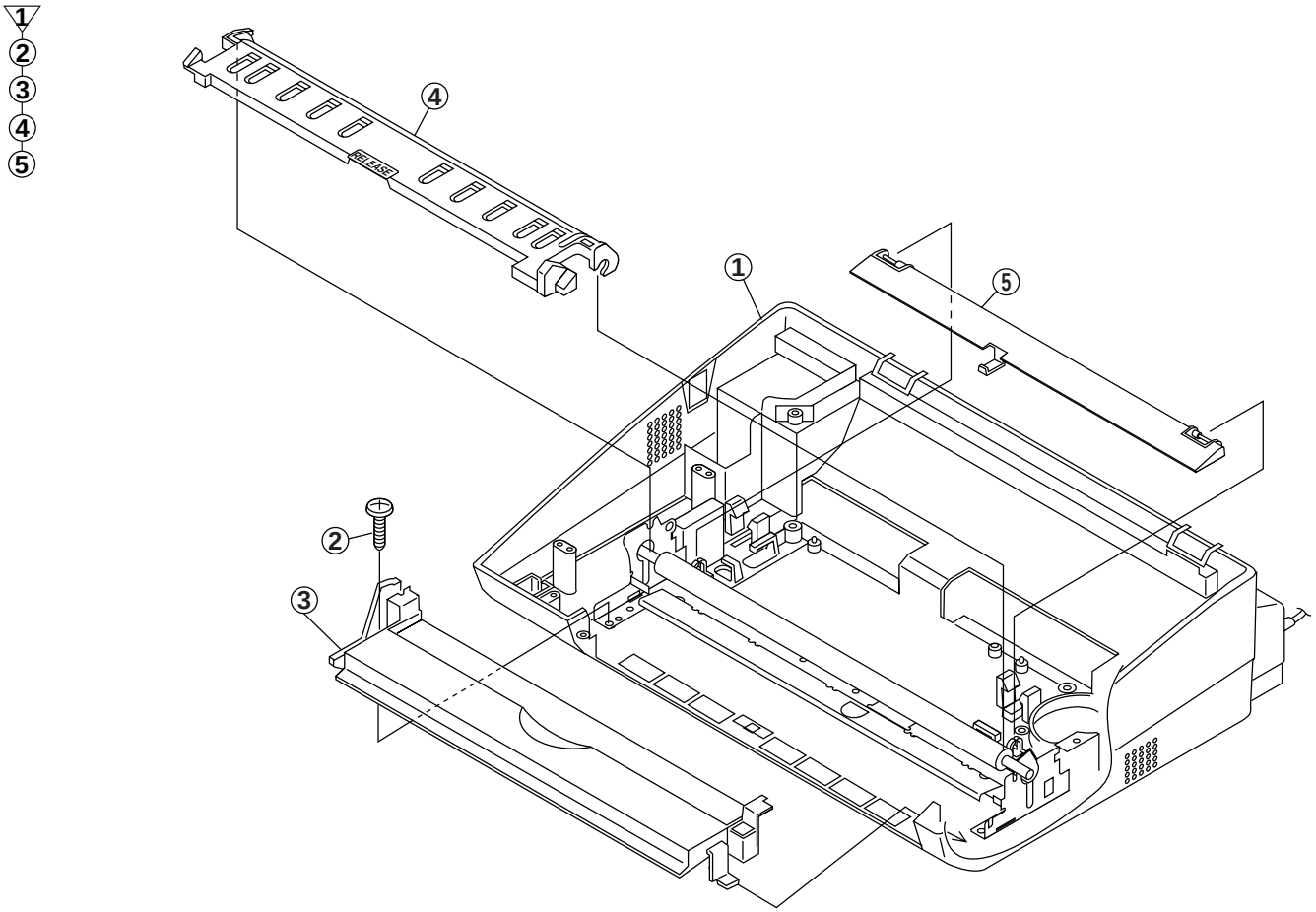


Fig. 6

7 Head frame unit

Parts list (Fig. 7)

No.	Part name	Q'ty
1	Mechanism unit	1
2	Screw (3×6)	1
3	Connector	1
4	Screw (3×8)	1
5	Head earth cable	1
6	Head frame unit	1
7	Screw (3×8)	2
8	Panel lock lever spring	2

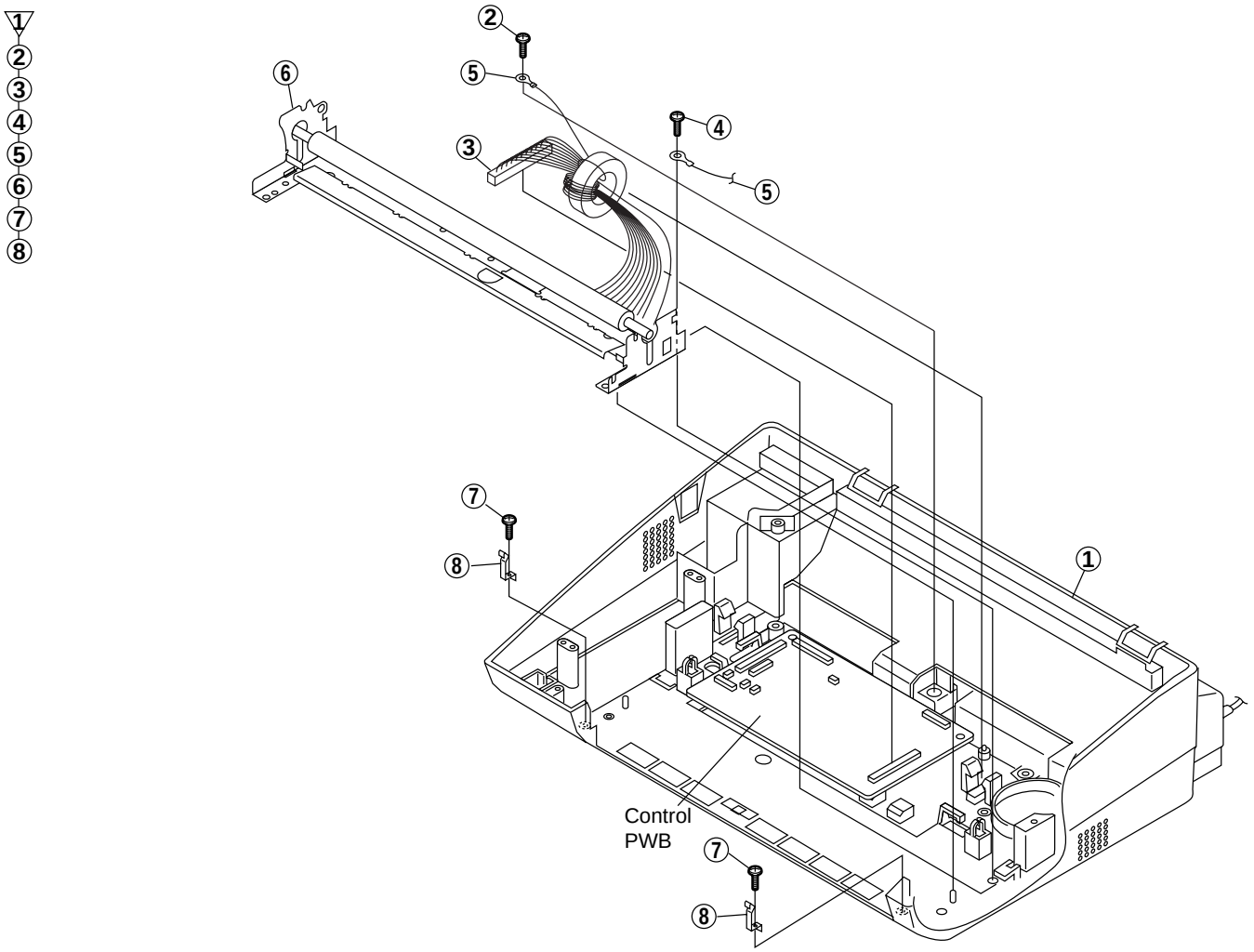


Fig. 7

8 Head frame and thermal head

Parts list (Fig. 8)

No.	Part name	Q'ty	No.	Part name	Q'ty
1	Platen gear	1	7	Screw (3×6)	1
2	Platen bearing	2	8	Head holder, right	1
3	Platen roller	1	9	Thermal head	1
4	Connector	1	10	Head spring 2	2
5	Screw (3×6)	1	11	Head spring 1	3
6	Head holder, left	1	12	Head frame	1

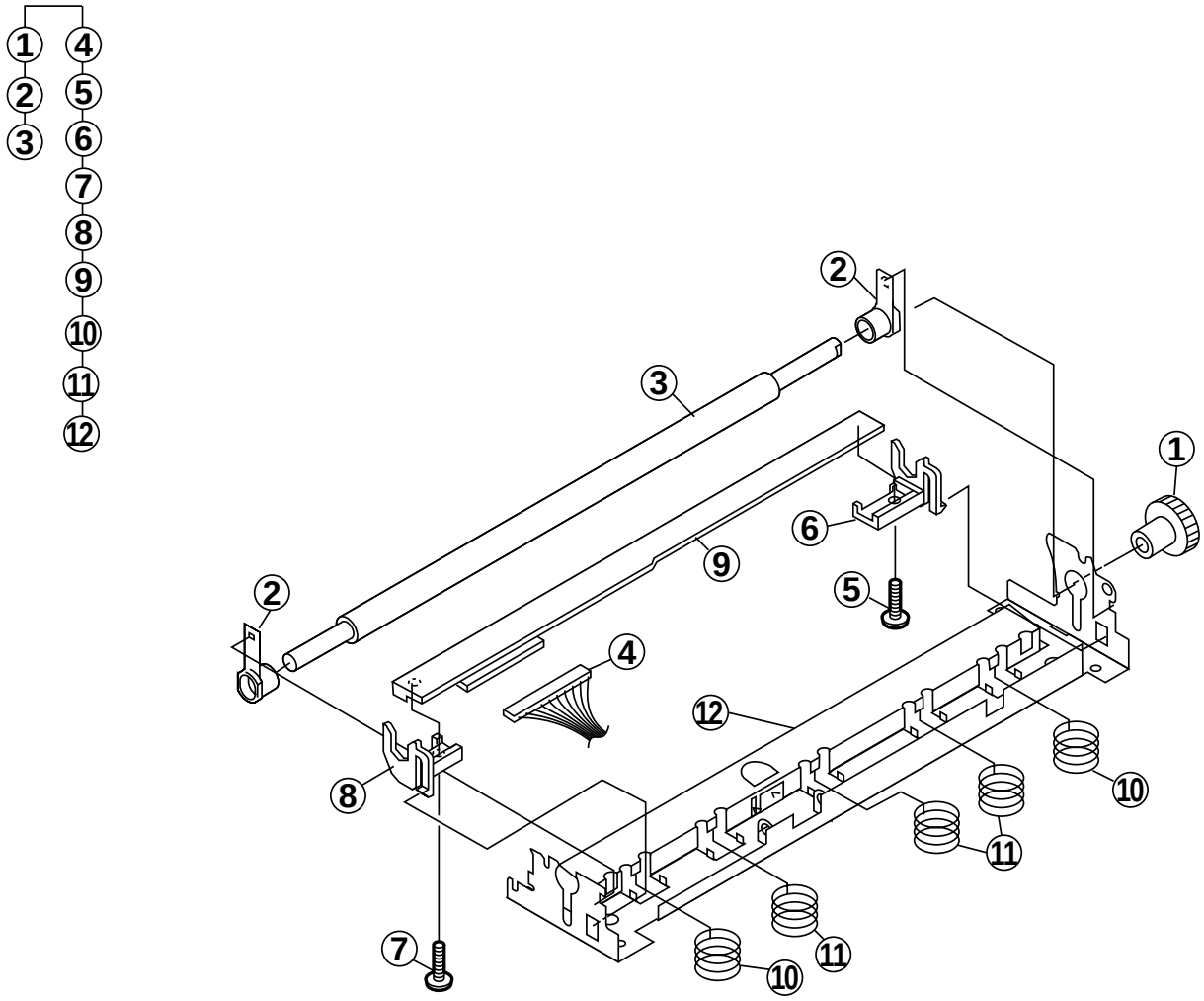


Fig. 8

9 PWB case top, bottom, PWB and speaker

Parts list (Fig. 9)

No.	Part name	Q'ty	No.	Part name	Q'ty
1	Mechanism unit	1	11	Screw (3×8)	2
2	Screw (3×8)	1	12	Hook switch joint lever	1
3	Connector	1	13	PWB case, top	1
4	Connector	2	14	PWB case, bottom unit	1
5	PWB case unit	1	15	Screw (3×6)	1
6	Screw (3×8)	1	16	TEL/LIU PWB unit	1
7	Control PWB unit	1	17	Screw (4×6)	1
8	Screw (3×8)	1	18	AC cord ass'y	1
9	Speaker holder lever spring	1	19	Power supply PWB unit	1
10	Speaker ass'y	1	20	PWB case, bottom	1

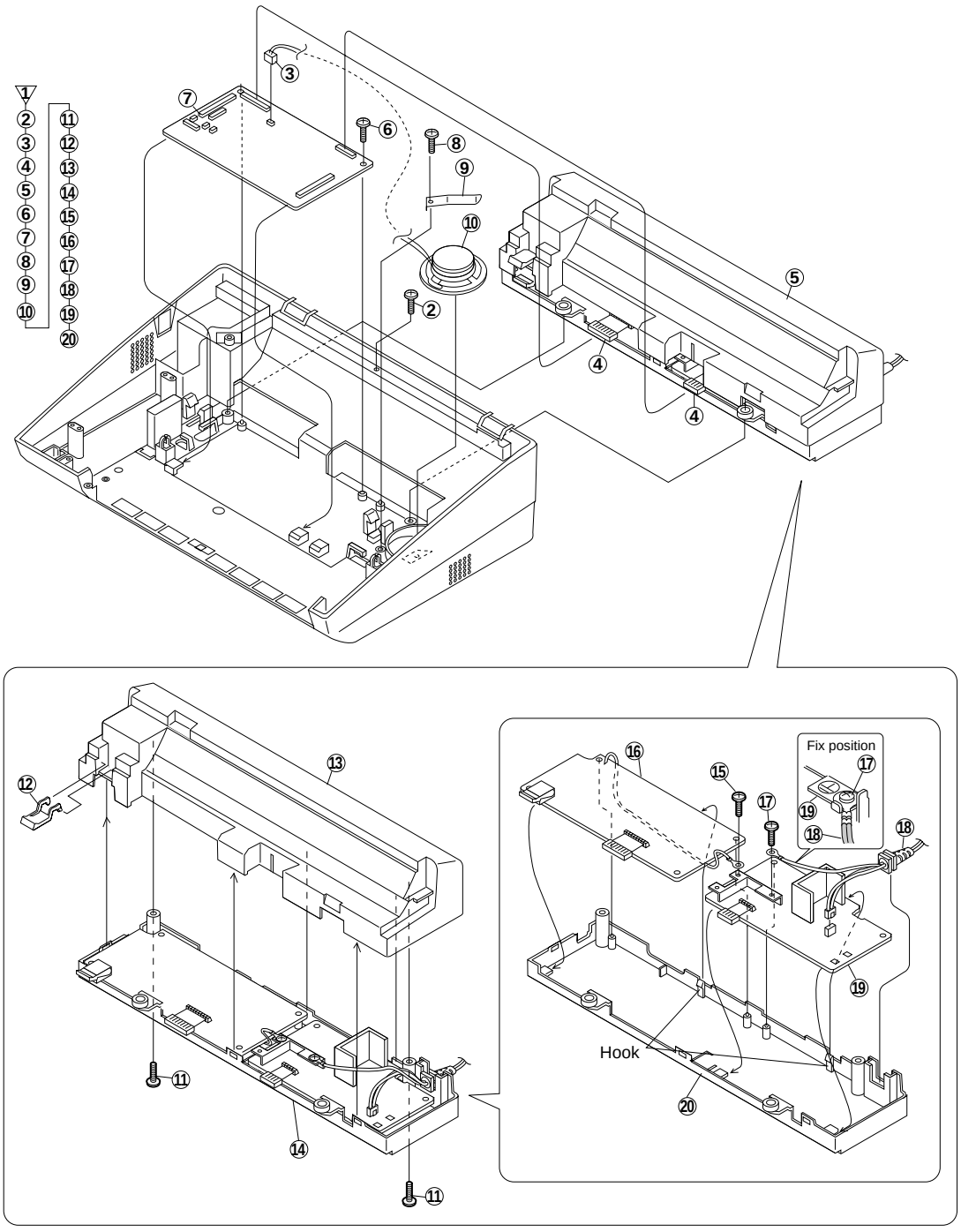


Fig. 9

10 Wire treatment

Parts list (Fig. 10)

No.	Part name	Q'ty
1	Core (F2125)	2
2	Screw (3×6)	1
3	Screw (4×6)	1
4	Screw (3×6)	1
5	Band (100mm)	1
6	Band (100mm) (UX-40/FO-50 only)	2
7	Core (F2123) (UX-40/FO-50 only)	1
8	Screw (3x8)	1

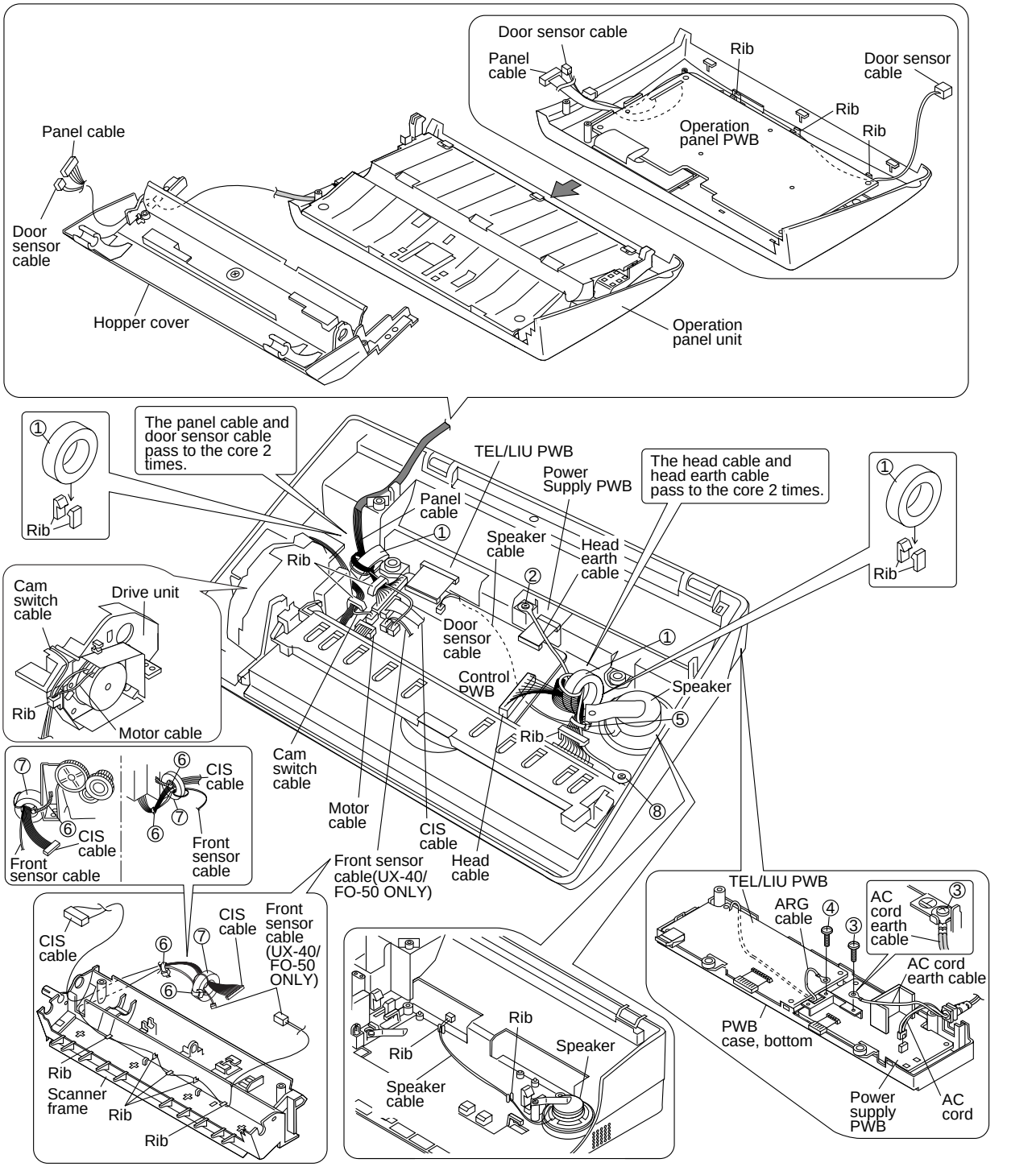
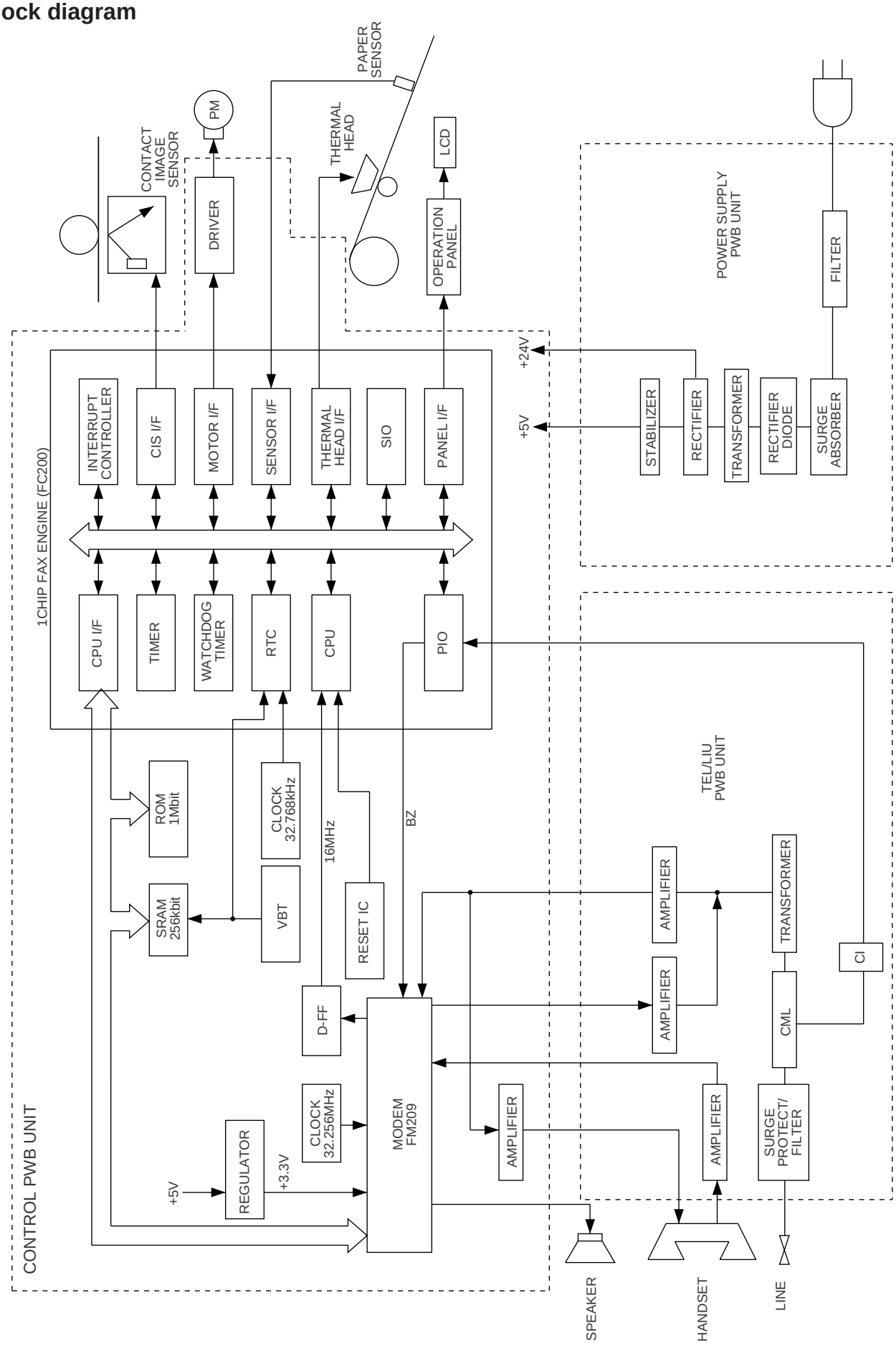


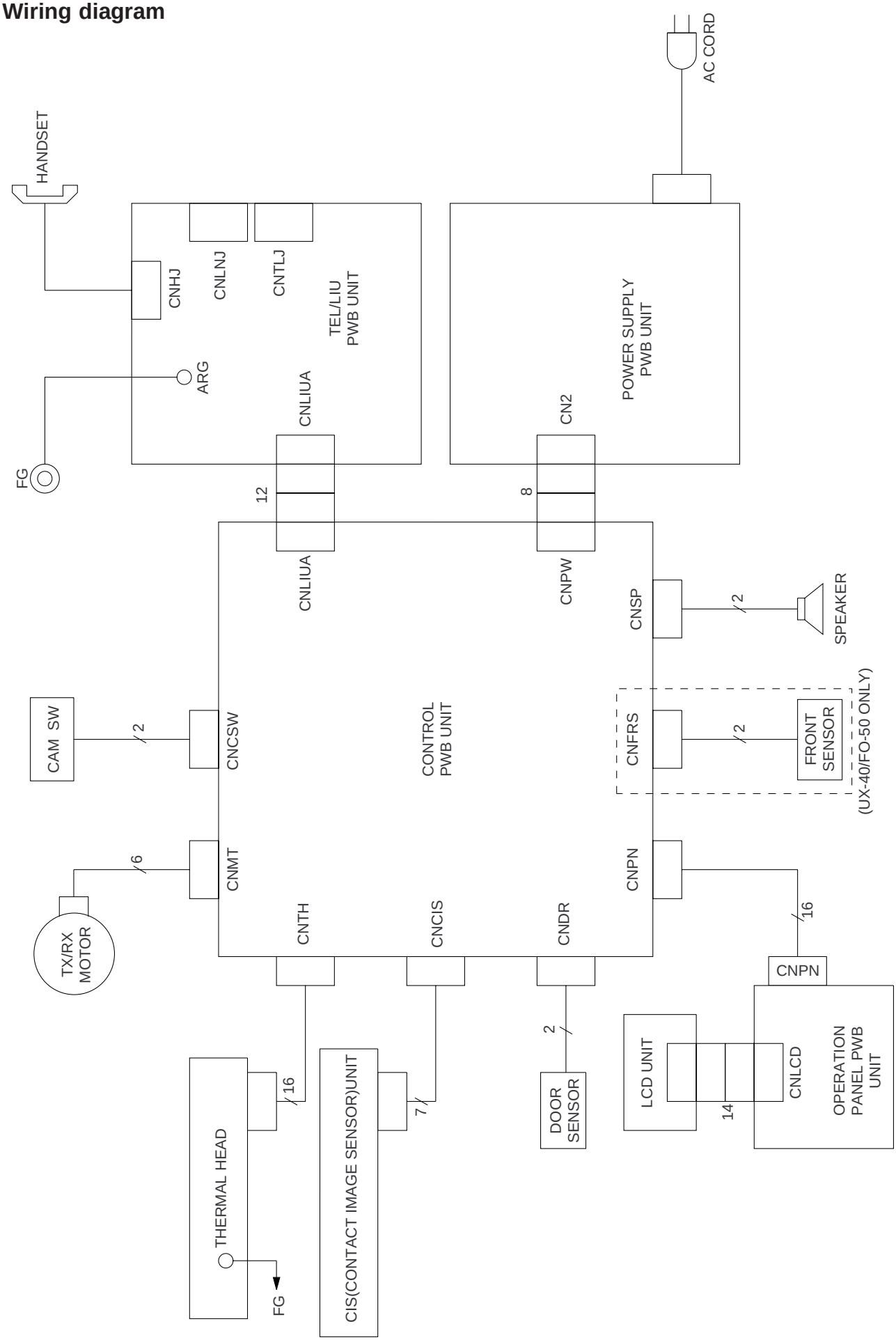
Fig. 10

CHAPTER 4. DIAGRAMS

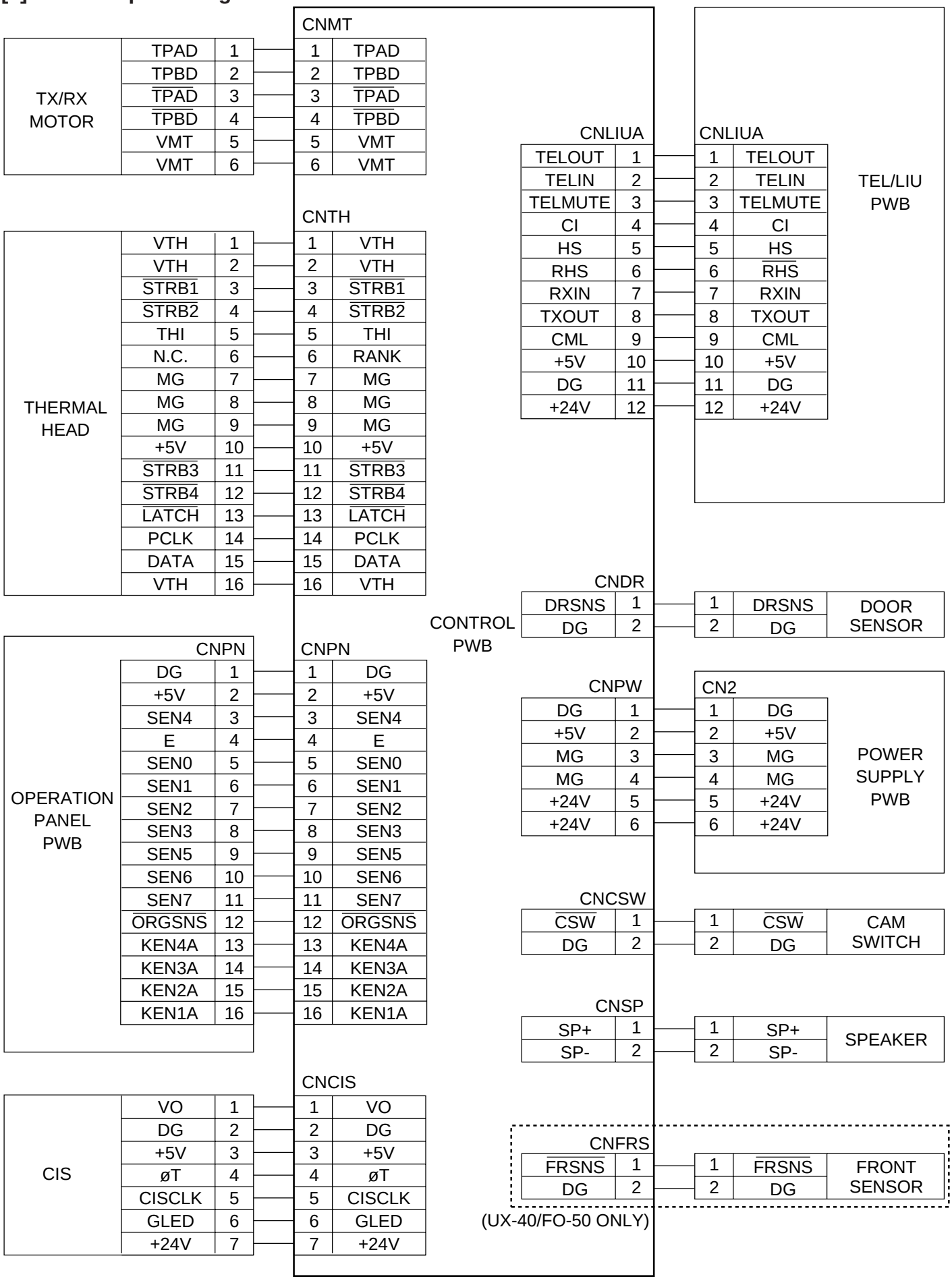
[1] Block diagram



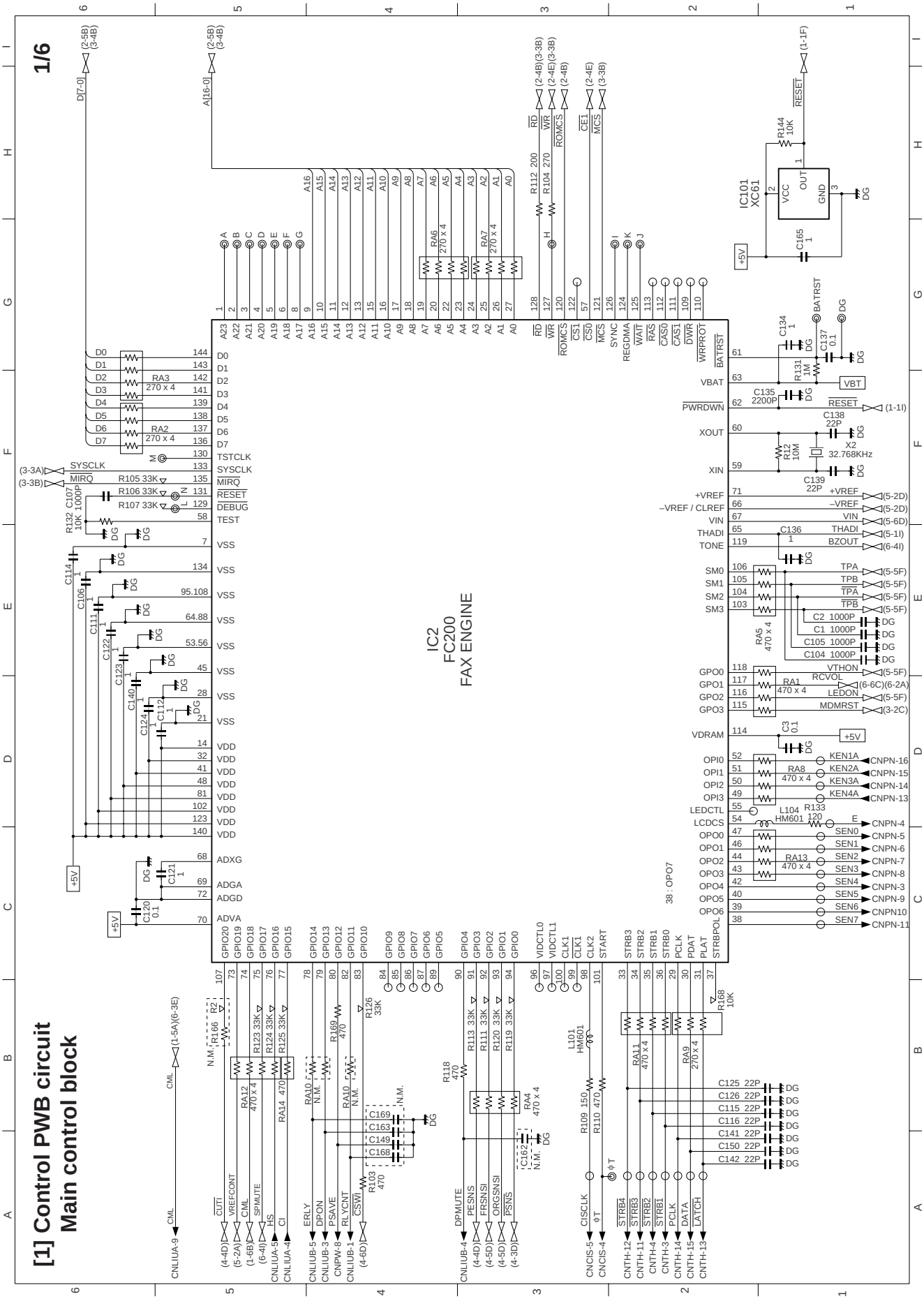
[2] Wiring diagram

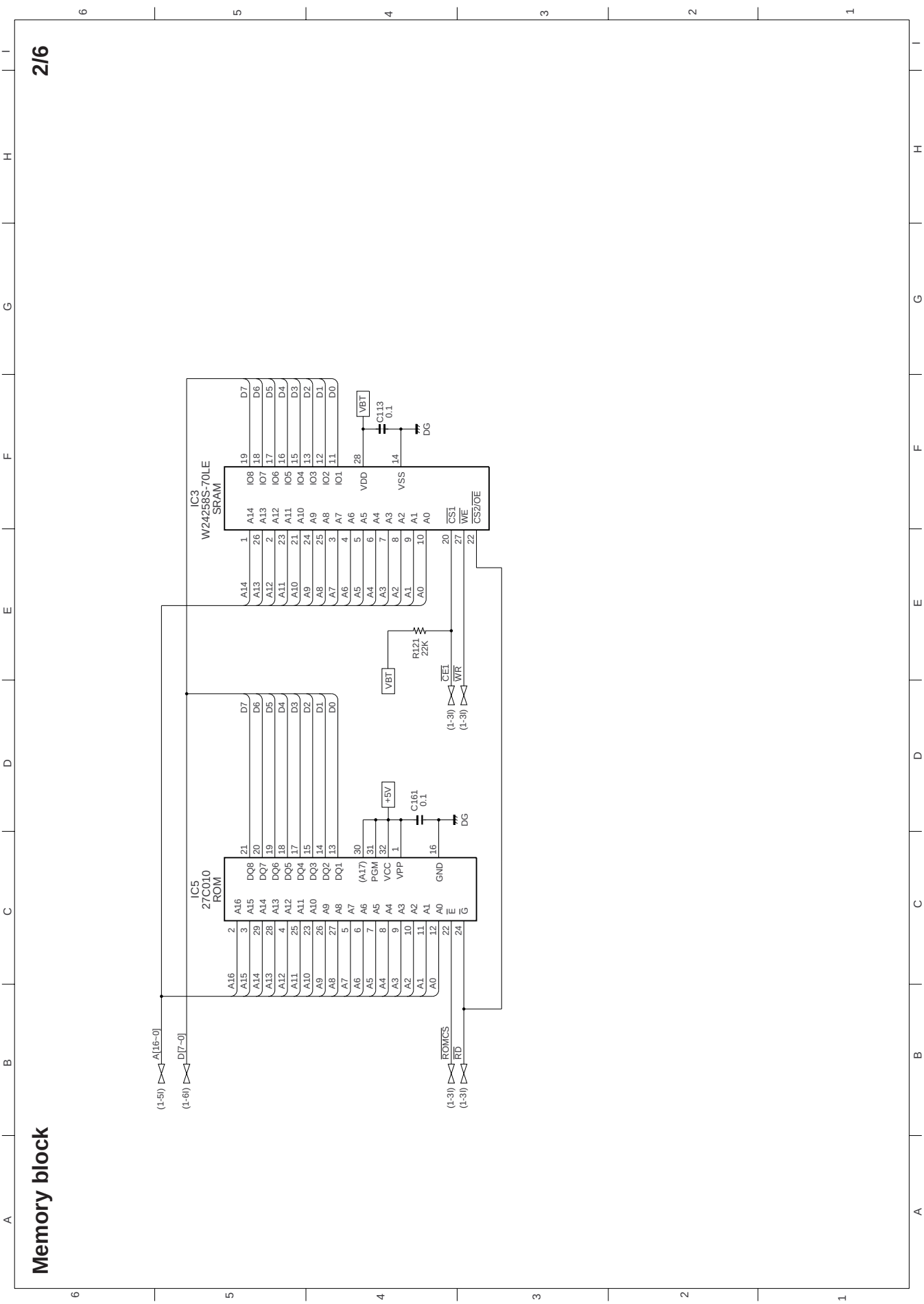


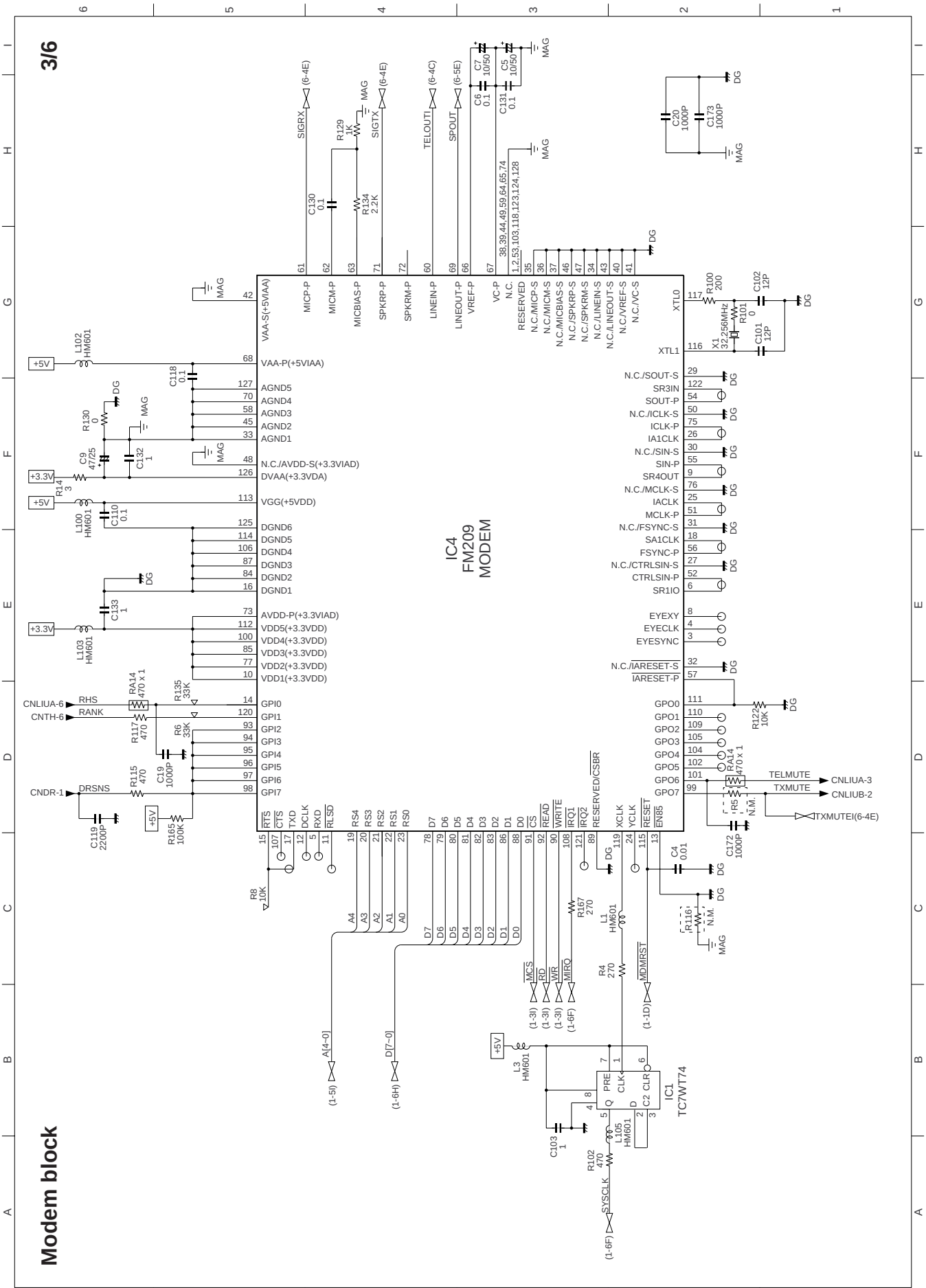
[3] Point- to-point diagram

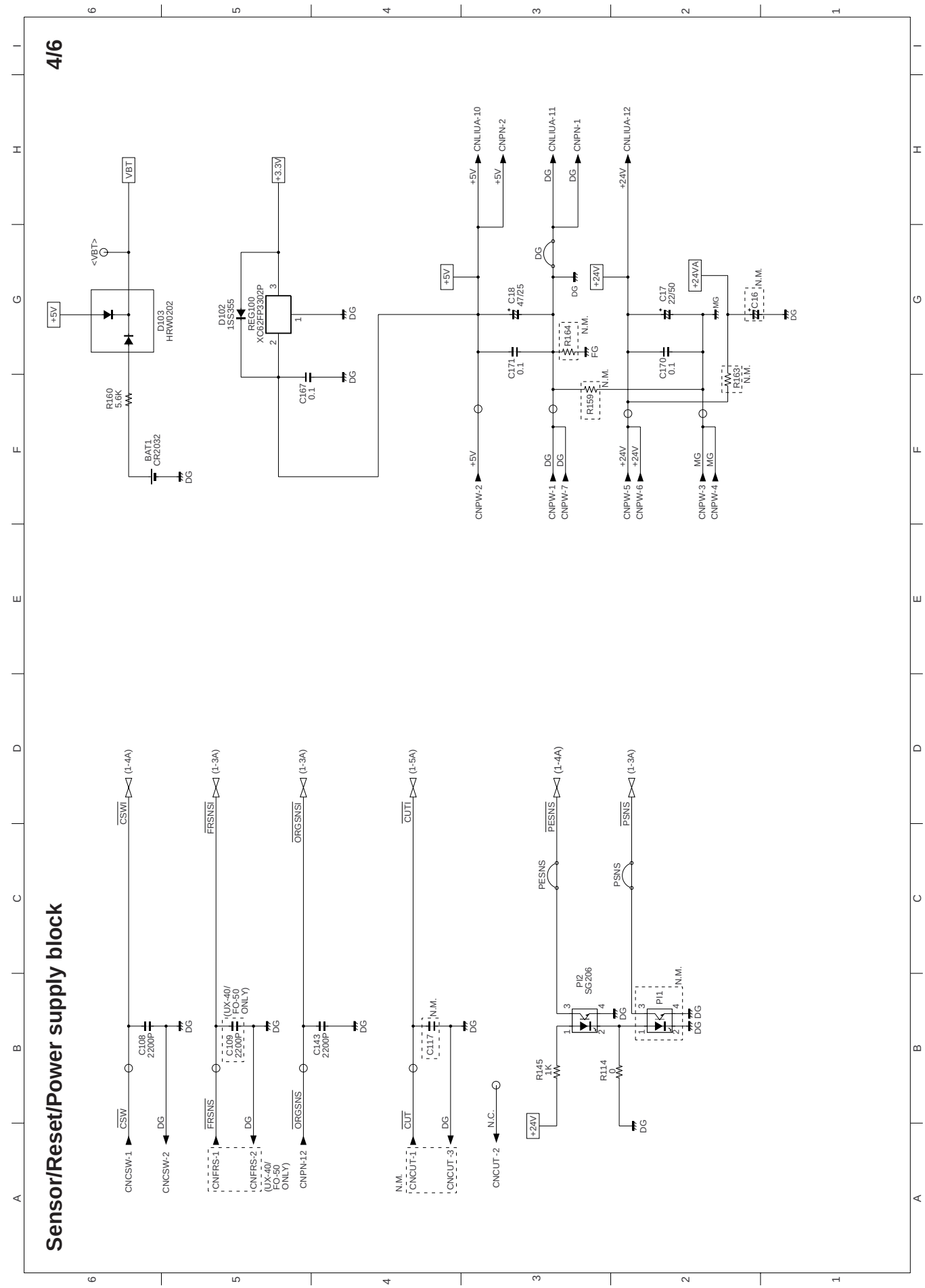


CHAPTER 6. CIRCUIT SCHEMATICS AND PARTS LAYOUT



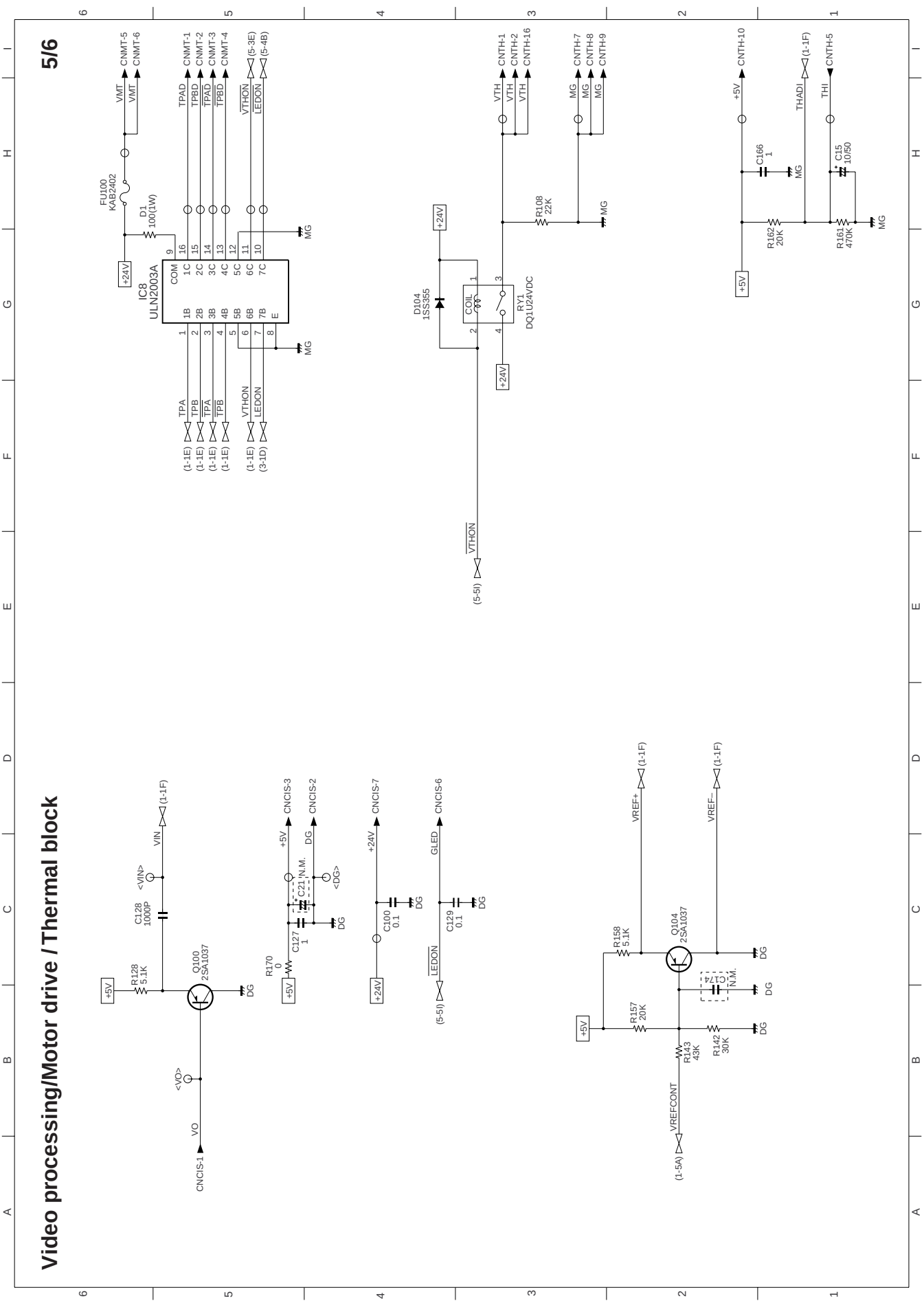

2/6
Memory block
IC3
W24258S-70LE
SRAM
IC5
27C010
ROM
VBT
C113
0.1
DG
R121
22K
+5V
C161
0.1
A[16–0]
D[7–0]
CE1
WR
RD
ROMCS
(1-5I)
(1-6I)
(1-3I)

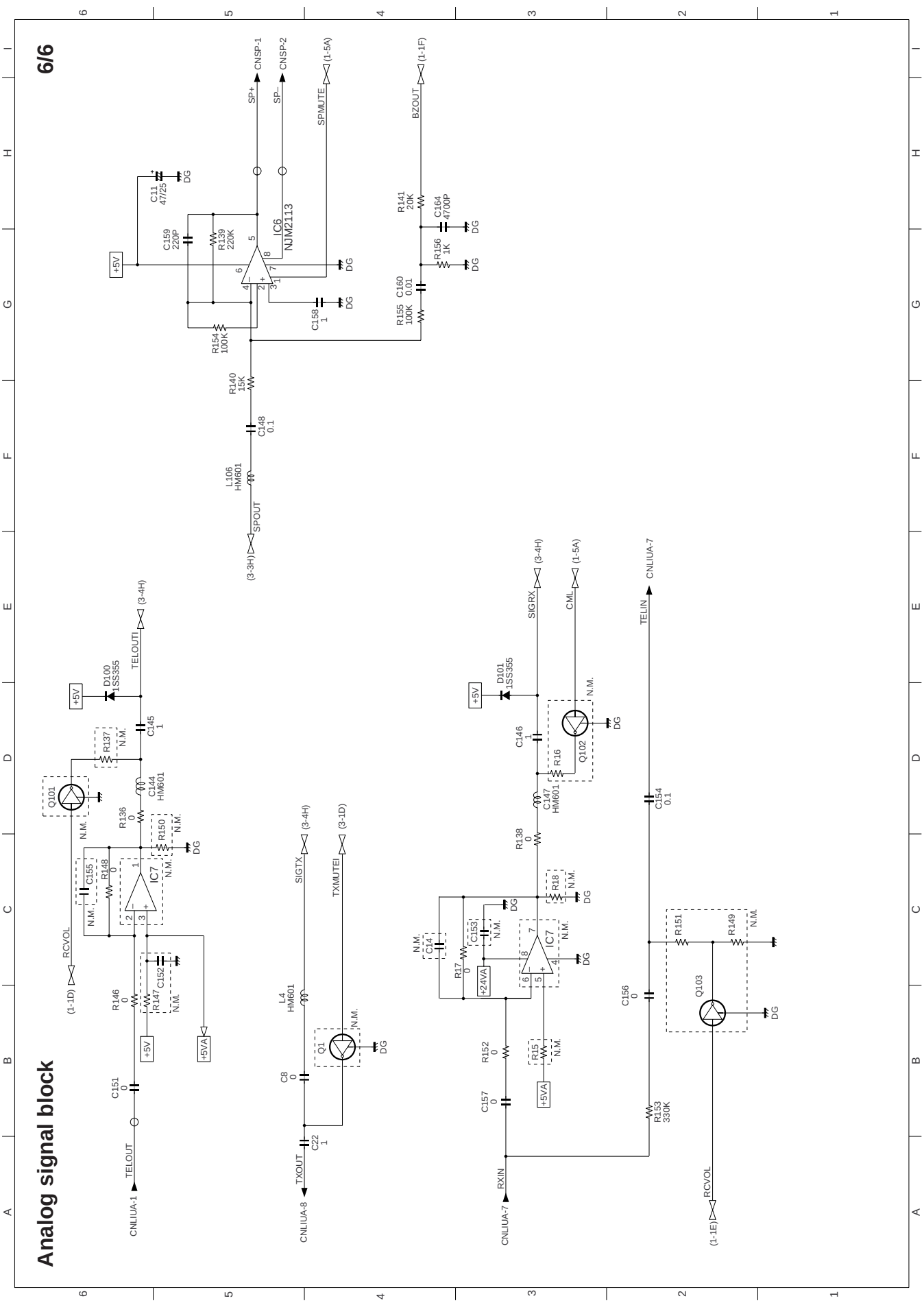

3/6
Modem block
IC4
FM209
MODEM
IC1
TC7WT74
VAA-S(+5VIAA)
VAA-P(+5VIAA)
AGND5
AGND4
AGND3
AGND2
AGND1
N.C./AVDD-S(+3.3VIAD)
DVAA(+3.3VDA)
VGG(+5VDD)
DGND6
DGND5
DGND4
DGND3
DGND2
DGND1
AVDD-P(+3.3VIAD)
VDD5(+3.3VDD)
VDD4(+3.3VDD)
VDD3(+3.3VDD)
VDD2(+3.3VDD)
VDD1(+3.3VDD)
GPI0
GPI1
GPI2
GPI3
GPI4
GPI5
GPI6
GPI7
MICP-P
MICM-P
MICMBIAS-P
SPKRP-P
SPKRM-P
LINEIN-P
LINEOUT-P
VREF-P
VC-P
N.C.
RESERVED
N.C./MICP-S
N.C./MICM-S
N.C./MICBIAS-S
N.C./SPKRP-S
N.C./SPKRM-S
N.C./LINEIN-S
N.C./LINEOUT-S
N.C./VREF-S
N.C./VC-S
XTL0
XTL1
N.C./SOUT-S
SR3IN
SOUT-P
N.C./ICLK-S
ICLK-P
IA1CLK
N.C./SIN-S
SIN-P
SR4OUT
N.C./MCLK-S
IACLK
MCLK-P
N.C./FSYNC-S
SA1CLK
FSYNC-P
N.C./CTRLSIN-S
CTRLSIN-P
SR1IO
EYEXY
EYECLK
EYESYNC
N.C./IARESET-S
IARESET-P
GPO0
GPO1
GPO2
GPO3
GPO4
GPO5
GPO6
GPO7
RTS
CTS
TXD
DCLK
RXD
RLSD
RS4
RS3
RS2
RS1
RS0
D7
D6
D5
D4
D3
D2
D1
D0
CS
READ
WRITE
IRQ1
IRQ2
RESERVED/CSBR
XCLK
YCLK
RESET
ENBS
SIGRX (6-4E)
SIGTX (6-4E)
TELOUTI (6-4C)
SPOUT (6-5E)
MAG
DG
+5V
+3.3V
CNLIUA-6
CNTH-6
CNDR-1
RHS
RANK
DRSNS
TELMUTE
TXMUTE
CNLIUA-3
CNLIUB-2
TXMUTEI(6-4E)
A[4-0]
D[7-0]
MCS
RD
WR
MIRQ
MDMRST
SYSCLK
(1-5I)
(1-6H)
(1-3I)
(1-6F)
(1-1D)
N.M.


4/6
Sensor/Reset/Power supply block
VBT
<VBT>
+5V
D103
HRW0202
R160
5.6K
BAT1
CR2032
DG
+3.3V
D102
1SS355
REG100
XC62FP3302P
C167
0.1
C18
47/25
C171
0.1
R164
N.M.
FG
R159
N.M.
CNLIUA-10
CNPN-2
CNLIUA-11
CNPN-1
CNLIUA-12
+24V
+24VA
MG
C17
22/50
C170
0.1
R163
N.M.
C16
N.M.
CNPW-2
CNPW-1
CNPW-7
CNPW-5
CNPW-6
CNPW-3
CNPW-4
CSWI
(1-4A)
CSW
C108
2200P
CNCSW-1
CNCSW-2
FRSNSI
(1-3A)
FRSNS
C109
2200P
(UX-40/
FO-50
ONLY)
CNFRS-1
CNFRS-2
(UX-40/
FO-50
ONLY)
ORGSNSI
ORGSNS
C143
2200P
CNPN-12
CUTI
(1-5A)
CUT
C117
N.M.
N.M.
CNCUT-1
CNCUT -3
N.C.
CNCUT -2
PESNS
PESNSI
(1-4A)
PI2
SG206
R145
1K
PSNS
PSNSI
(1-3A)
PI1
R114
0
N.M.

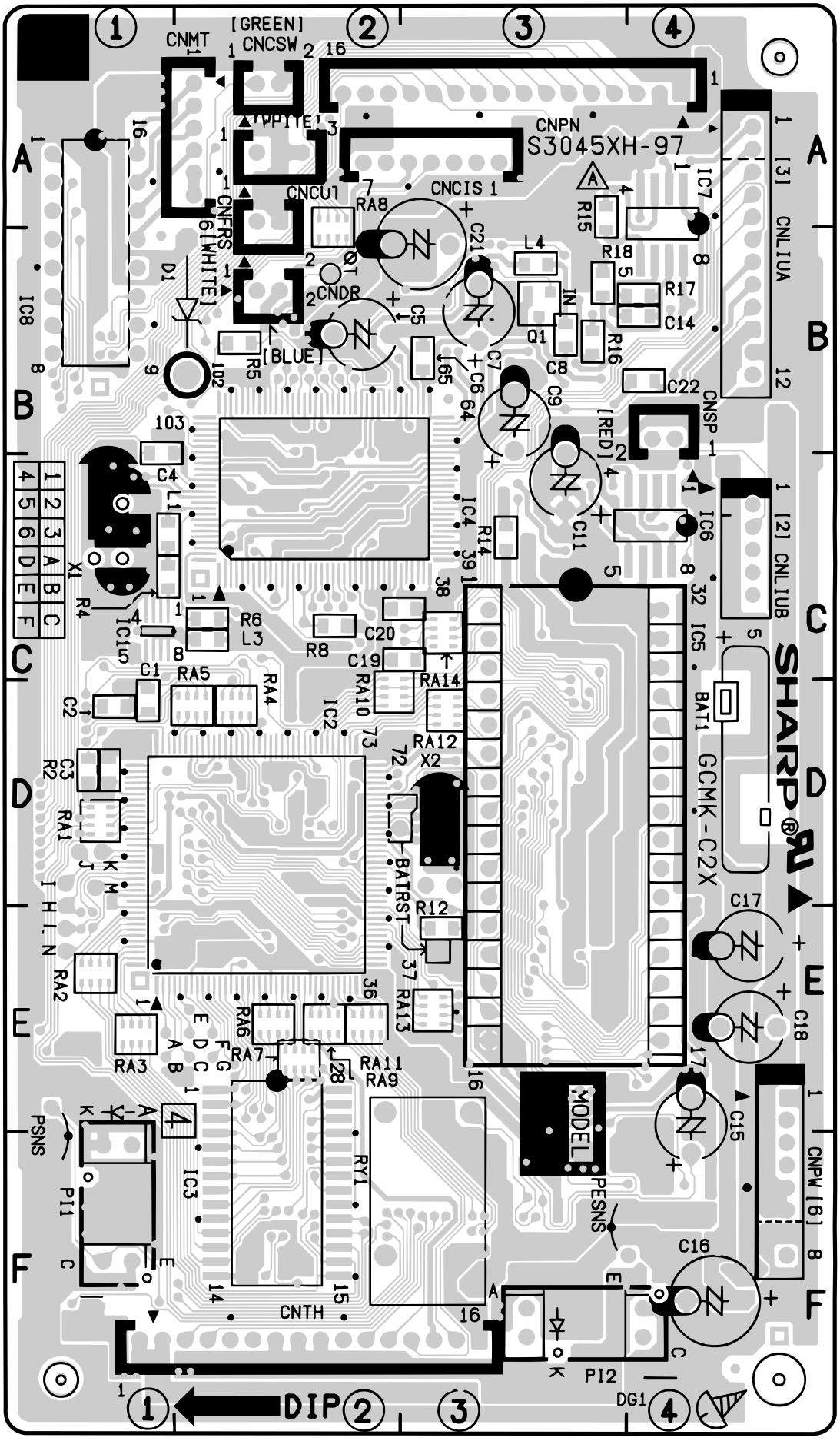
Video processing/Motor drive / Thermal block

5/6

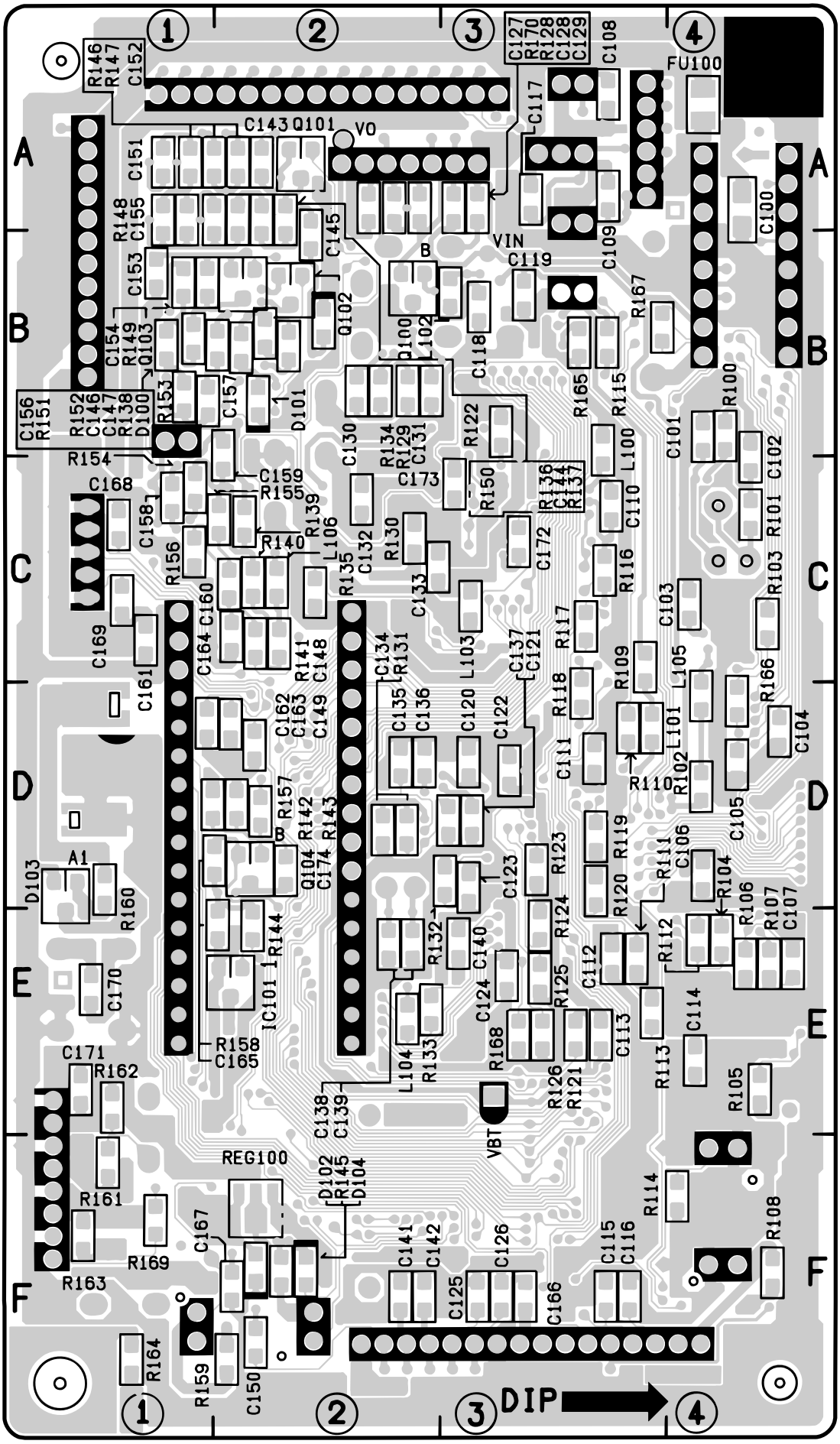


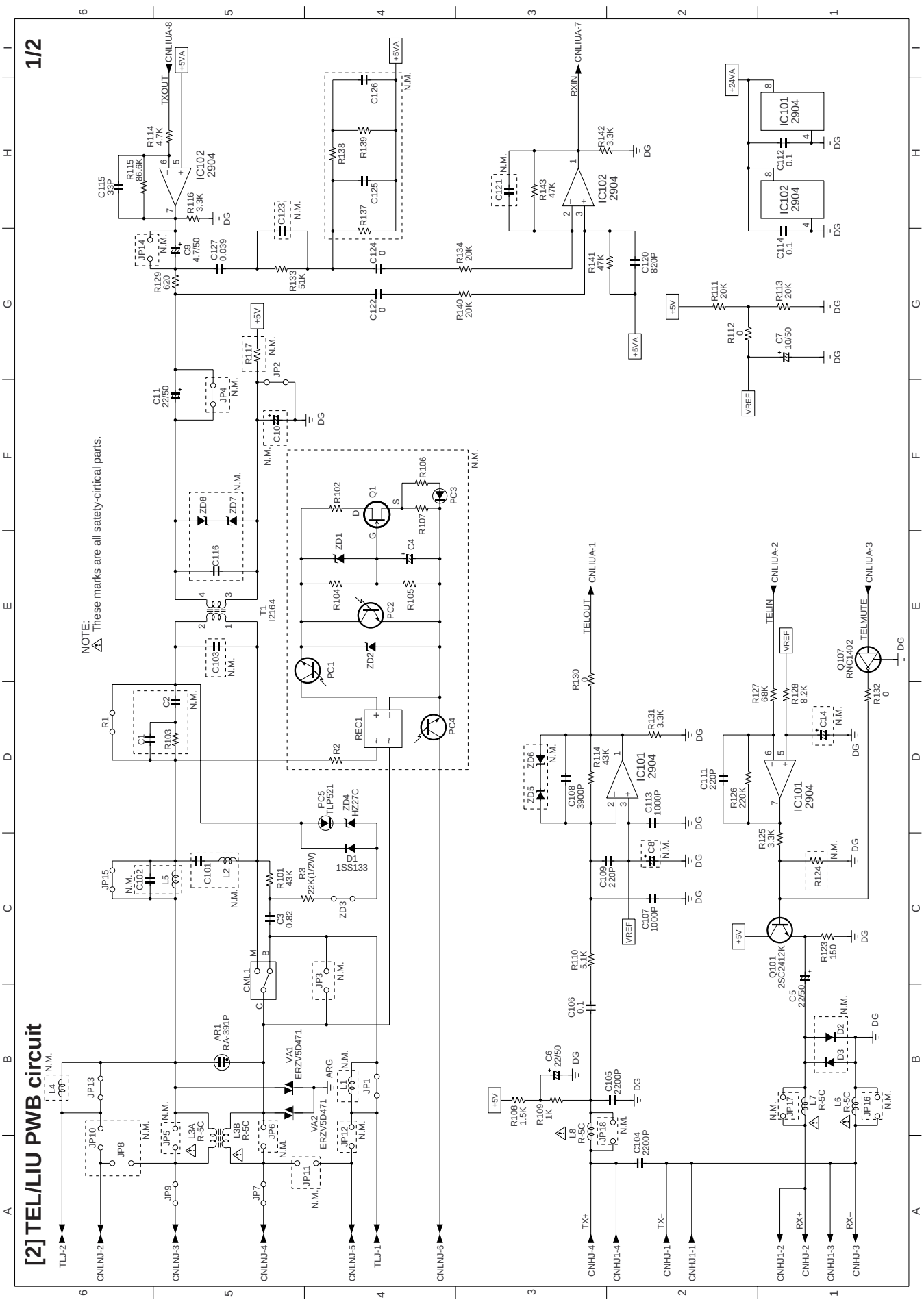

6/6
Analog signal block
CNSP-1
CNSP-2
SP+
SP–
SPMUTE
(1-5A)
BZOUT
(1-1F)
IC6
NJM2113
SPOUT
(3-3H)
TELOUTI
(3-4H)
TELOUT
CNLIUA-1
RCVOL
(1-1D)
SIGTX
TXMUTEI
(3-1D)
TXOUT
CNLIUA-8
SIGRX
CML
TELIN
CNLIUA-7
RXIN
Q101
Q102
Q103
Q1
IC7
D100
D101
1SS355
+5V
+5VA
+24VA
DG
N.M.
(1-1E)

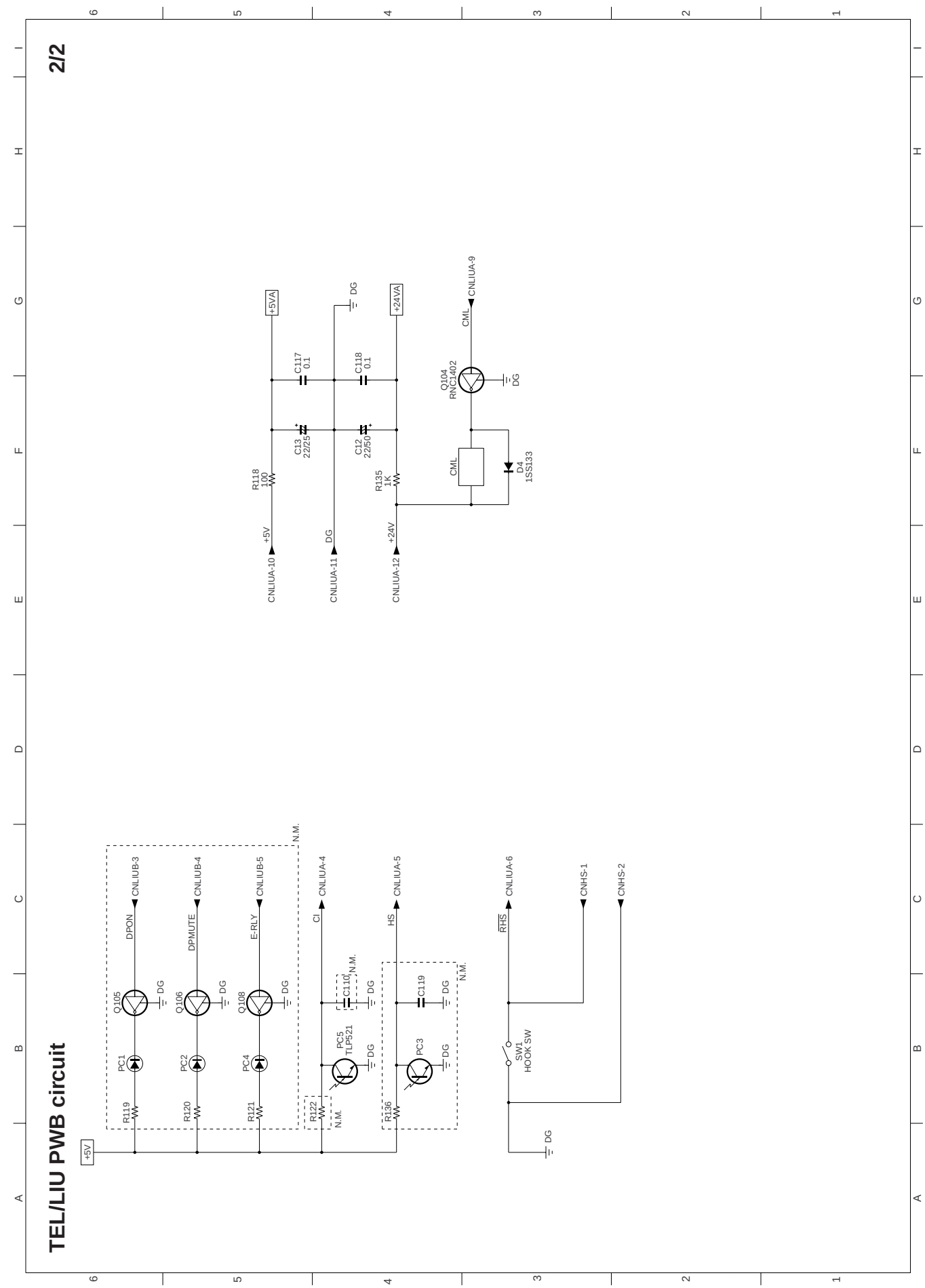
Control PWB parts layout (Top side)



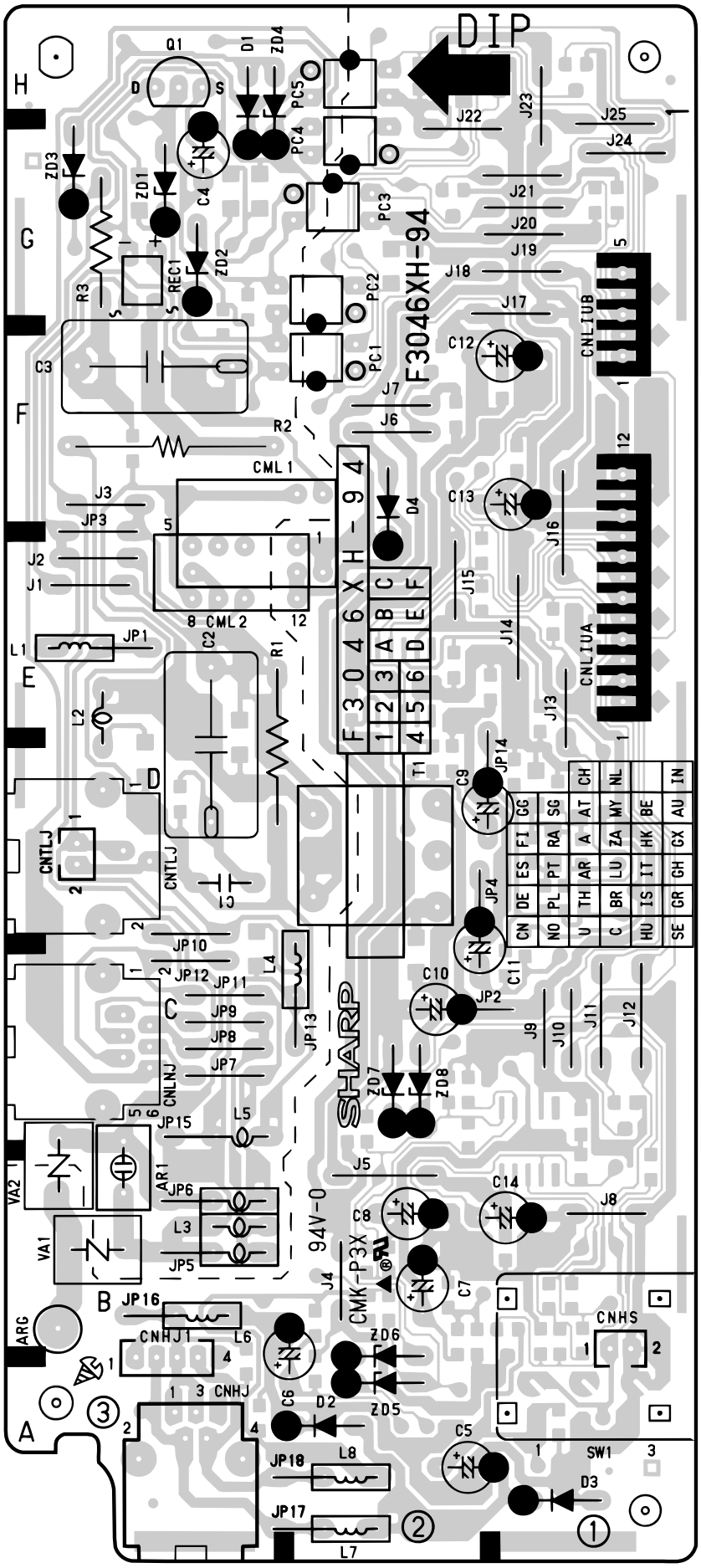
Control PWB parts layout (Bottom side)



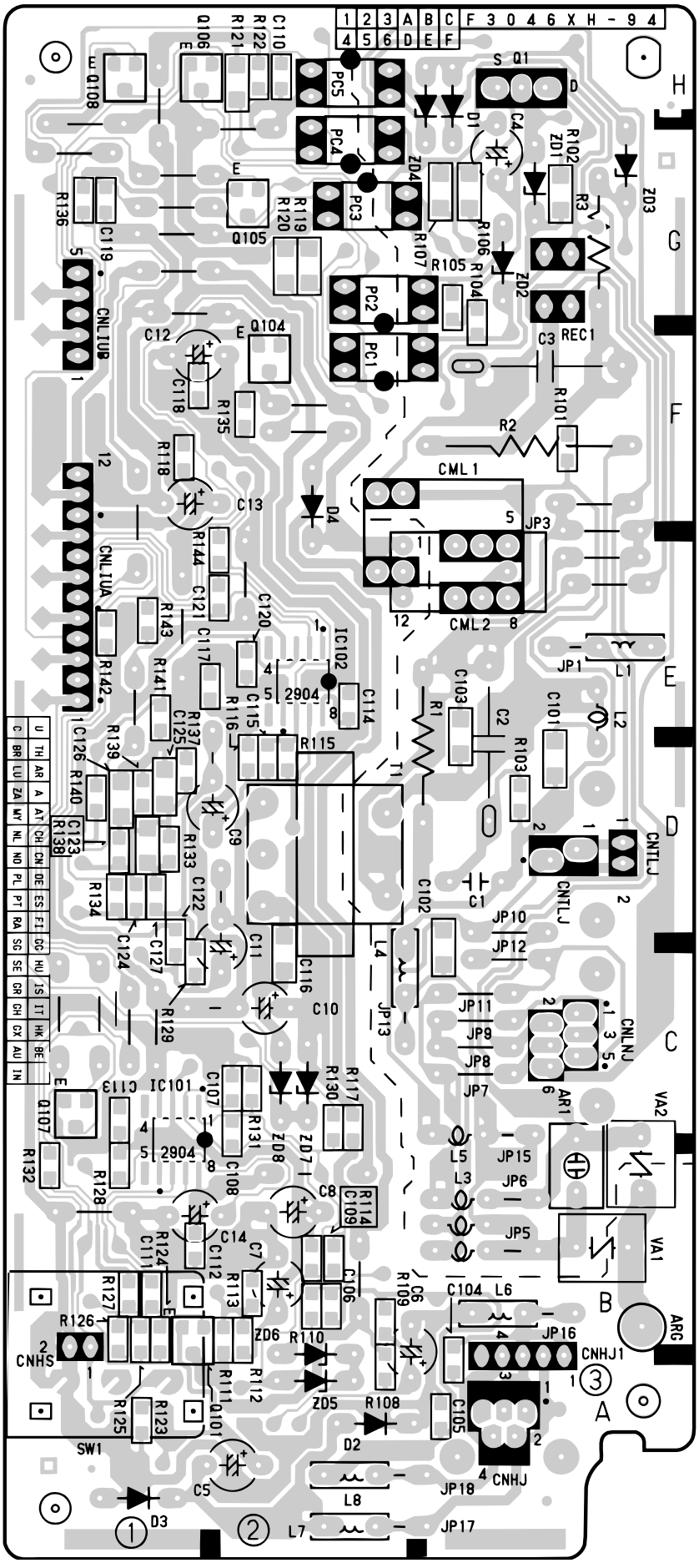

1/2
[2] TEL/LIU PWB circuit
NOTE:
⚠ These marks are all satety-cirtical parts.
CNLIUA-1
CNLIUA-2
CNLIUA-3
CNLIUA-7
CNLIUA-8
TELOUT
TELIN
TELMUTE
RXIN
TXOUT
VREF
+5V
+5VA
+24VA
DG
IC101 2904
IC102 2904
Q1
Q101 2SC2412K
Q107 RNC1402
PC1
PC2
PC3
PC4
PC5 TLP521
REC1
T1 I2164
CML1
AR1 RA-391P
VA1 ERZV5D471
VA2 ERZV5D471
ARG
D1 1SS133
ZD1
ZD2
ZD3
ZD4 HZ27C
ZD5
ZD6
ZD7
ZD8
TLJ-2
TLJ-1
CNLNJ-2
CNLNJ-3
CNLNJ-4
CNLNJ-5
CNLNJ-6
CNHJ-4
CNHJ-1
CNHJ-2
CNHJ-3
TX+
TX–
RX+
RX–
N.M.


2/2
TEL/LIU PWB circuit
+5V
PC1
R119
Q105
DPON
CNLIUB-3
PC2
R120
Q106
DPMUTE
CNLIUB-4
PC4
R121
Q108
E-RLY
CNLIUB-5
N.M.
R122
CI
CNLIUA-4
PC5
TLP521
C110
R136
HS
CNLIUA-5
PC3
C119
RHS
CNLIUA-6
SW1
HOOK SW
CNHS-1
CNHS-2
DG
+5VA
C117
0.1
C118
0.1
C13
22/25
C12
22/50
R118
100
R135
1K
+24VA
+5V
CNLIUA-10
CNLIUA-11
+24V
CNLIUA-12
Q104
RNC1402
CML
CNLIUA-9
D4
1SS133

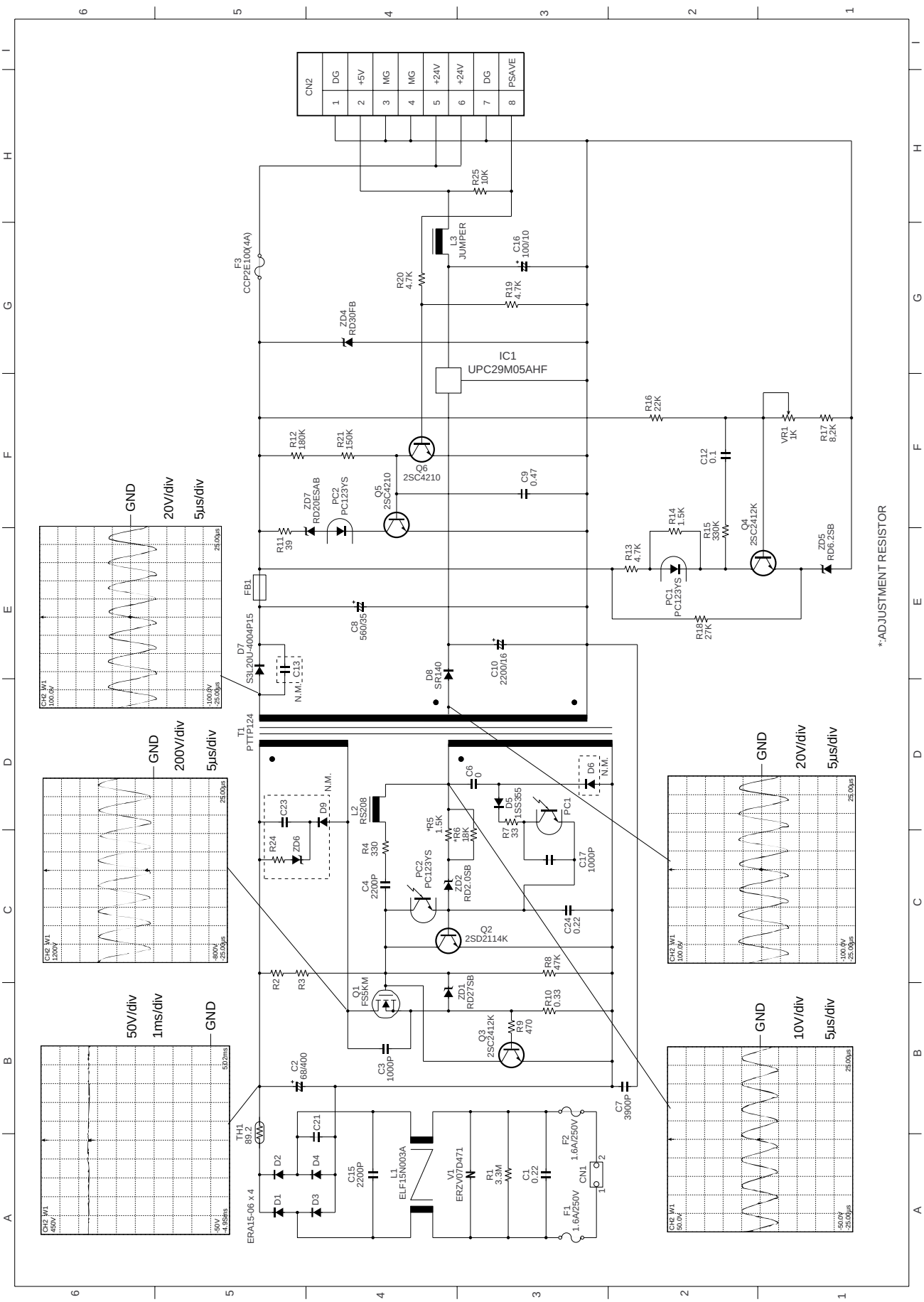
TEL/LIU PWB parts layout (Top side)



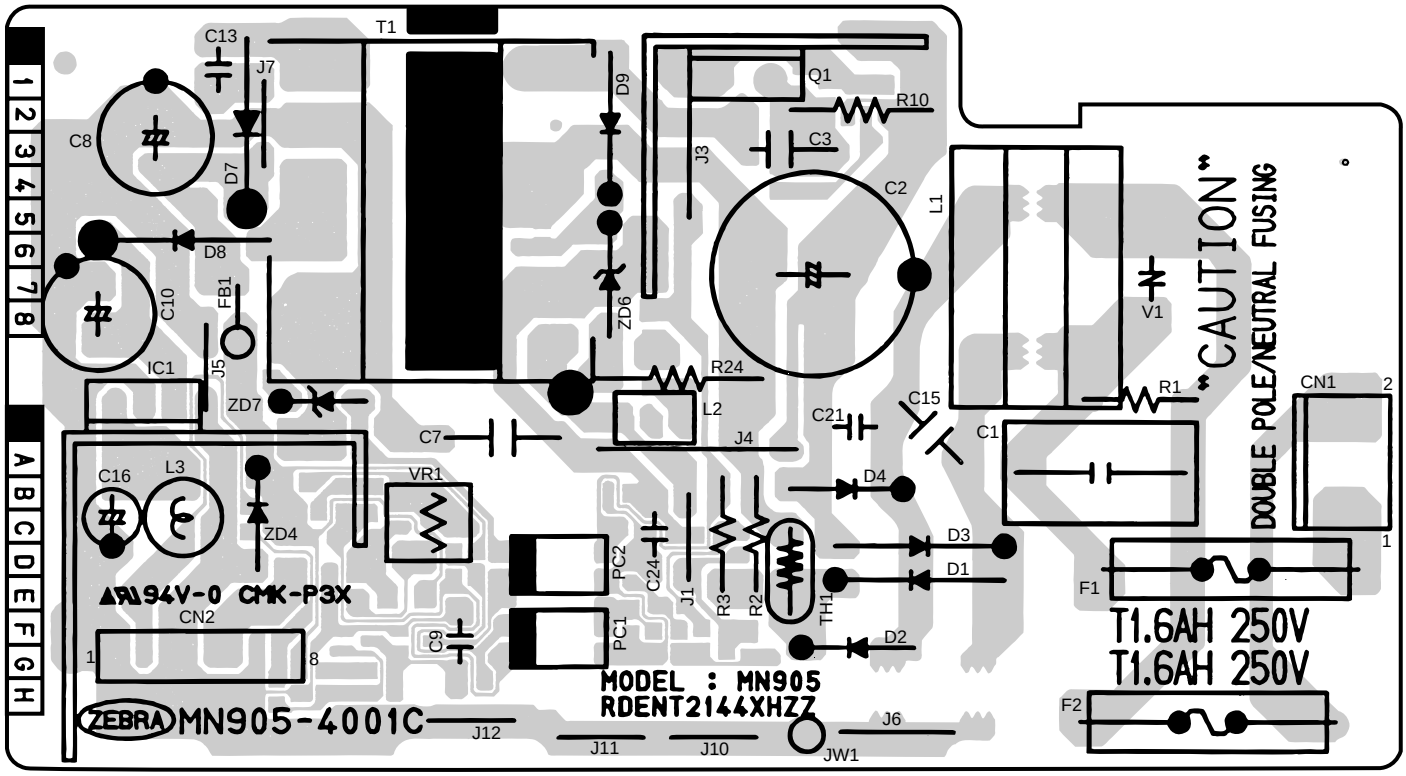
TEL/LIU PWB parts layout (Bottom side)



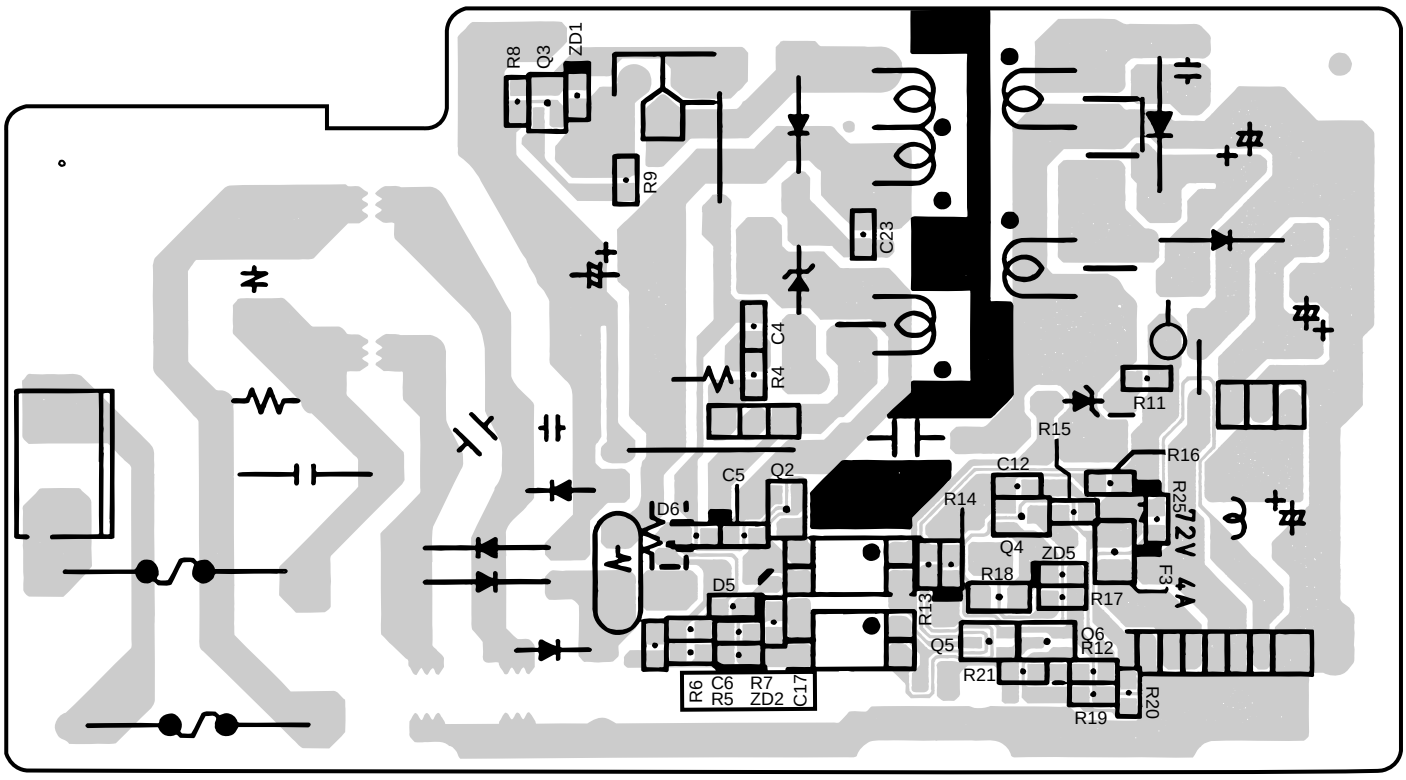
[3] Power supply PWB circuit



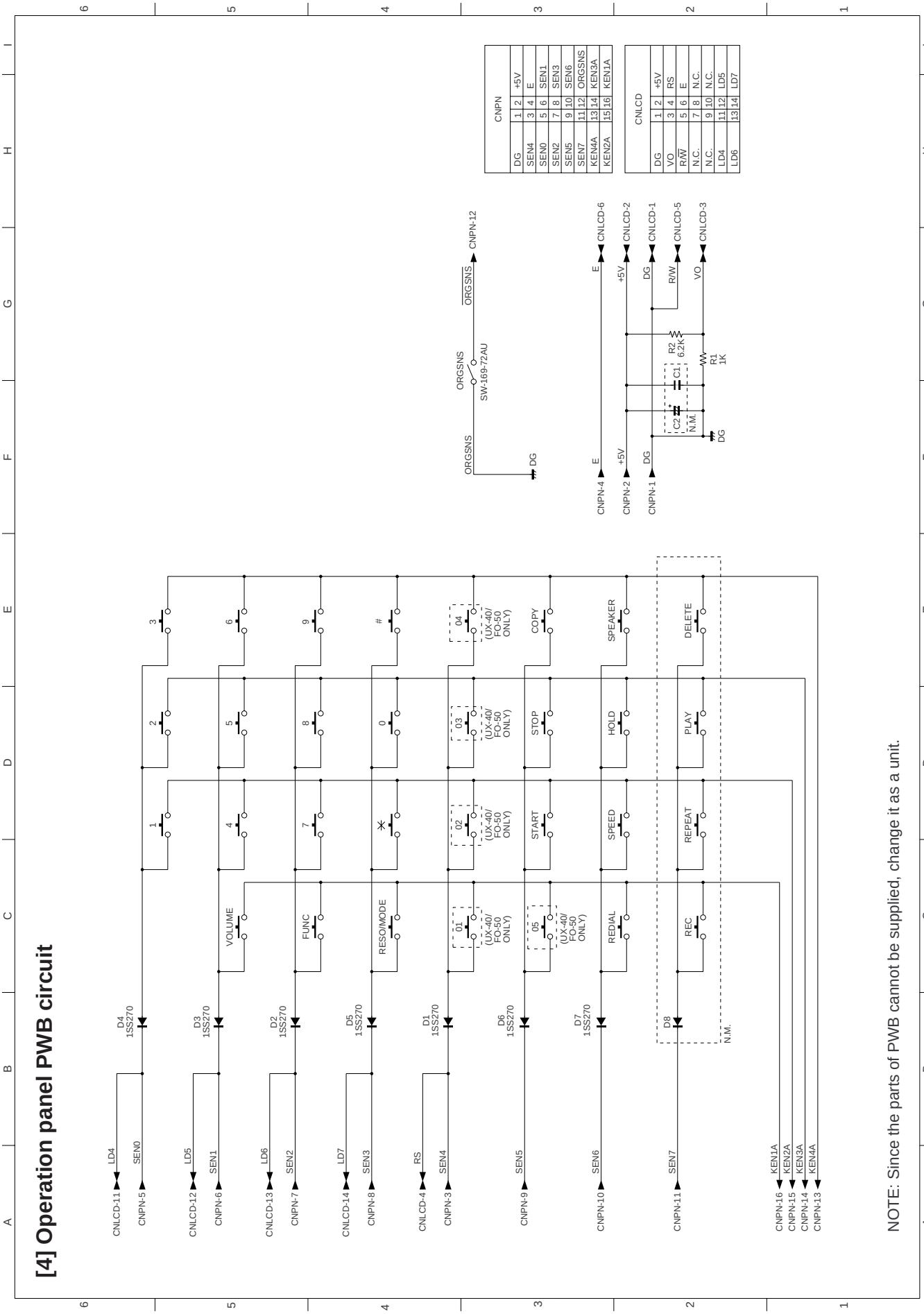
Power supply PWB parts layout (Top side)



Power supply PWB parts layout (Bottom side)



[4] Operation panel PWB circuit



NOTE: Since the parts of PWB cannot be supplied, change it as a unit.

M E M O

SHARP **PARTS GUIDE**

UX-8
UX-40
GQ-5
MODEL FO-50

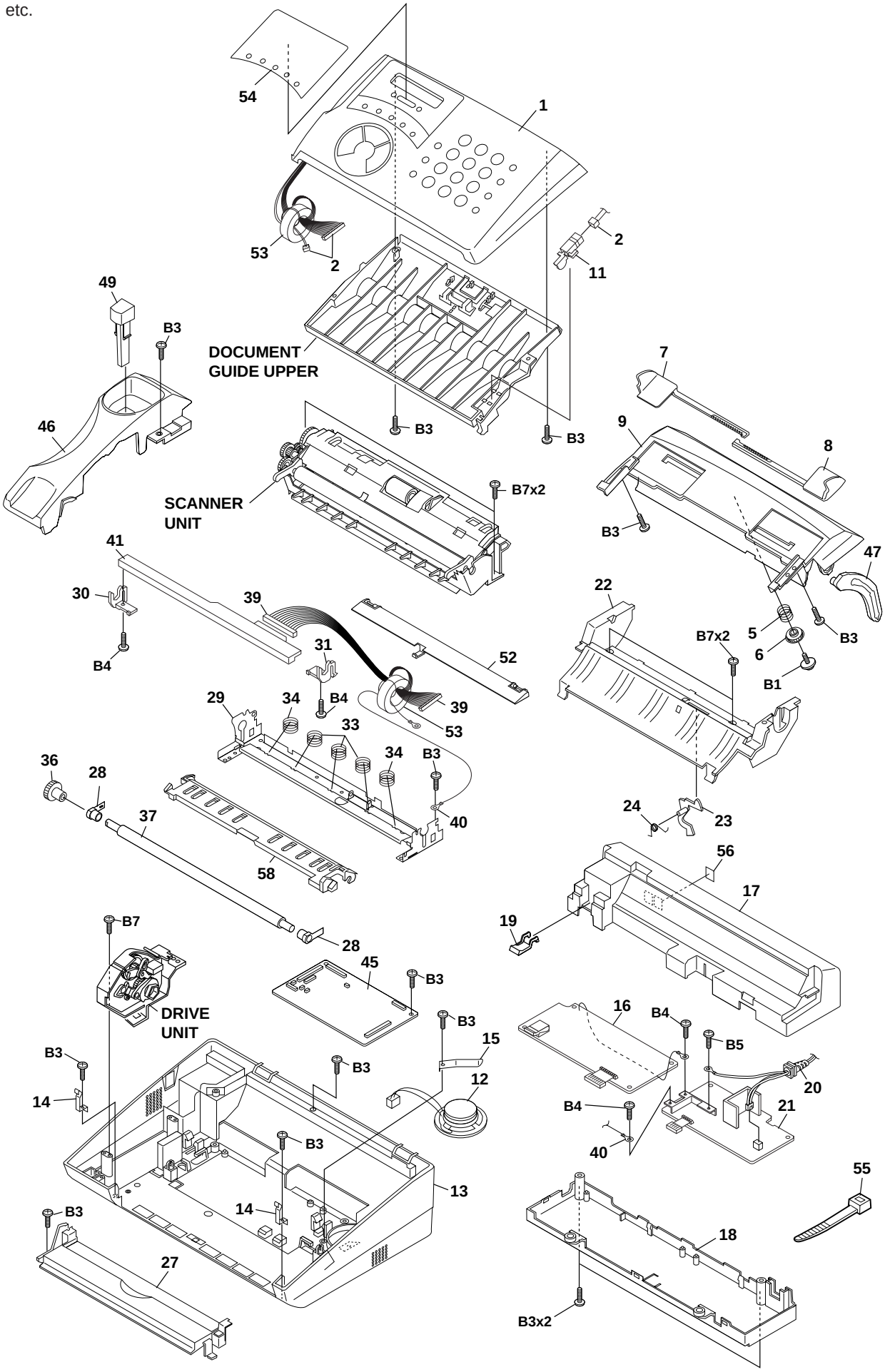
CONTENTS

1 Cabinet, etc.
2 Scanner unit
3 Upper cabinet
4 Document guide upper
5 Drive unit
6 Packing material & Accessories
7 Control PWB unit
8 TEL-Liu PWB unit
9 Power supply PWB unit
■ Index

Because parts marked with "⚠" is indispensable for the machine safety maintenance and operation, it must be replaced with the parts specific to the product specification.

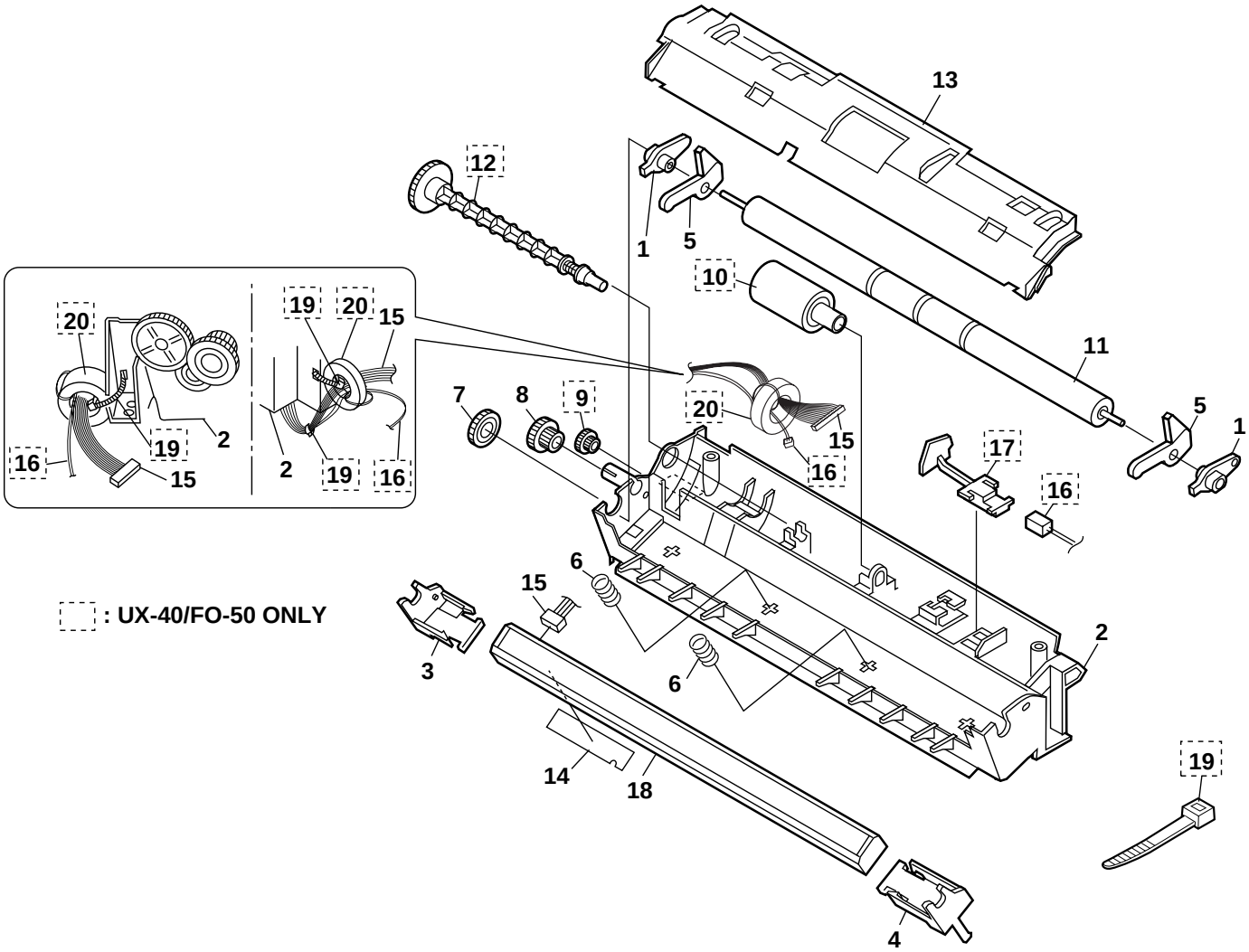
UX-8TH/UX-40TH
GQ-5TH/FO-50TH

[1] Cabinet, etc.



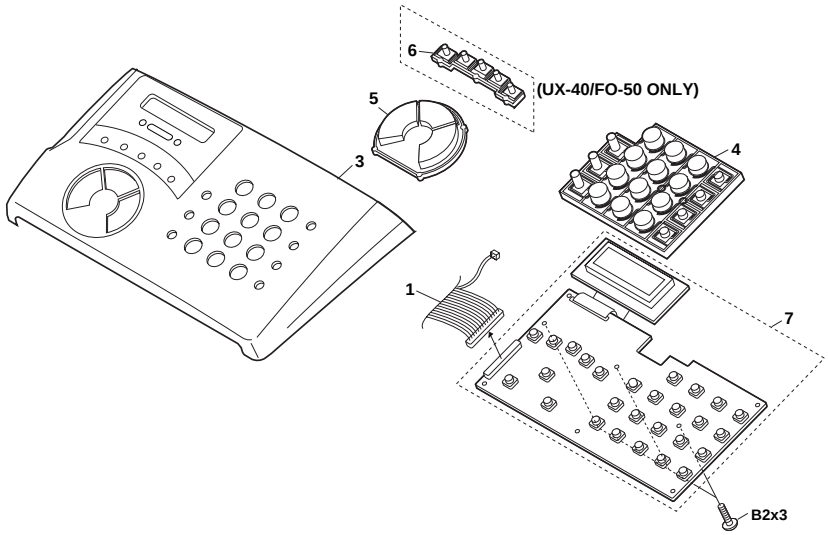
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[1] Cabinet etc.						
1	DCEKP481BXH18	AP	N	E	Operation panel unit	[8]
	DCEKP481BXH04	AP		E	Operation panel unit	[40]
	DCEKP481BXH19	AP	N	E	Operation panel unit	[5]
	DCEKP481BXH05	AP		E	Operation panel unit	[50]
2	CCNW-212AXH01	AK		C	Panel cable ass'y	
5	MSPRC2954XHZZ	AC		C	Hopper spring	
6	NGERP2318XHZZ	AD		C	Pinion gear	
7	PGIDM2560XHSD	AE		C	Hopper,guide,left	
8	PGIDM2561XHSD	AC		C	Hopper,guide,right	
9	PHOP-2104XHSD	AF		C	Hopper cover	
11	QSW-M2296XHZZ	AD		B	Door sensor	
12	CCNW-215AXH01	AG		C	Speaker ass'y	
13	GCABB2343XHSA	AK		D	Lower cabinet	[8/40]
	GCABB2343XHSB	AK	N	D	Lower cabinet	[5]
	GCABB2343XHSC	AK		D	Lower cabinet	[50]
14	MSPRP3119XHZZ	AC		C	Panel lock lever spring	
15	MSPRP3123XHZZ	AC		C	Speaker holder lever spring	
16	DCEKL483BXH02	AX		E	TEL/Liu PWB unit	
17	GCASP2110XHSD	AK		C	PWB case,top	[8/40]
	GCASP2110XHSF	AK	N	C	PWB case,top	[5]
	GCASP2110XHSE	AK		C	PWB case,top	[50]
18	GCASP2111XHSA	AH		C	PWB case,bottom	[8/40]
	GCASP2111XHSB	AH	N	C	PWB case,bottom	[5]
	GCASP2111XHSC	AH	N	C	PWB case,bottom	[50]
19	MLEVP2320XHZZ	AC		C	Hook switch joint lever	
20	QACCE2042XHZZ	AL		B	AC cord ass'y	
⚠ 21	RDENT2144XHZZ	BA		E	Power supply PWB unit	
22	GDAI-2083XHZZ	AF		C	Paper support guide	
23	MLEVP2316XHZZ	AC		C	Paper sensor lever	
24	MSPRD3116XHZZ	AB		C	Paper sensor lever spring	
27	PGIDM2563XHSA	AE	N	C	PO guide	[8/40]
	PGIDM2563XHSB	AE	N	C	PO guide	[5]
	PGIDM2563XHSC	AC	N	C	PO guide	[50]
28	LBSHP2112XHZZ	AB		C	Platen bearing	
29	LFRM-2208XHZZ	AF		C	Head frame	
30	LHLDZ2184XHZZ	AC		C	Head holder,left	
31	LHLDZ2185XHZZ	AC		C	Head holder,right	
33	MSPRC3112XHZZ	AC		C	Head spring 1	
34	MSPRC3148XHZZ	AC		C	Head spring 2	
36	NGERH2478XHZZ	AB		C	Platen gear	
37	NROLR2425XHZZ	AP		C	Platen roller	
39	QCNW-209AXHZZ	AH		C	Head cable	
40	QCNW-210AXHZZ	AC		C	Head earth cable	
41	RHEDZ2059XHZZ	BF		B	Thermal head	
45	DCEKC689MXHZZ	BP	N	E	Control PWB unit(Within ROM)	[8]
	DCEKC685MXHZZ	BP	N	E	Control PWB unit(Within ROM)	[40/50]
	DCEKC780MXHZZ	BP	N	E	Control PWB unit(Within ROM)	[5]
46	GDAI-2082XHSD	AD		C	Handset cover	
47	LSTPP2054XHZZ	AC		C	Panel stopper	
49	MLEVP2319XHZZ	AC		C	Hook switch lever	
52	PGIDM2566XHZZ	AC		C	Head guide	
53	RCORF2125XHZZ	AE		B	Core(TRA31)	
54	HPNLH2394XHSA	AE	N	D	Decoration panel	[8]
	HPNLH2392XHSU	AE	N	D	Decoration panel	[40]
	HPNLH2394XHSE	AE	N	D	Decoration panel	[5]
	HPNLH2392XHS3	AE	N	D	Decoration panel	[50]
55	LBNDJ2006XHZZ	AA		C	Band(100mm)	
56	PSHEZ3410XHZZ	AB		C	Jack sheet	
58	MLEVP2321XHZZ	AN	N	C	Release lever	
B1	LX-BZ2138XHZZ	AB		C	Screw(2x6)	
B3	XEBSD30P08000	AA		C	Screw(3x8)	
B4	XBBSD30P06000	AA		C	Screw(3x6)	
B5	XBPSN40P06K00	AA		C	Screw(4x6)	
B7	XEBSD30P12000	AA		C	Screw(3x12)	

[2] Scanner unit



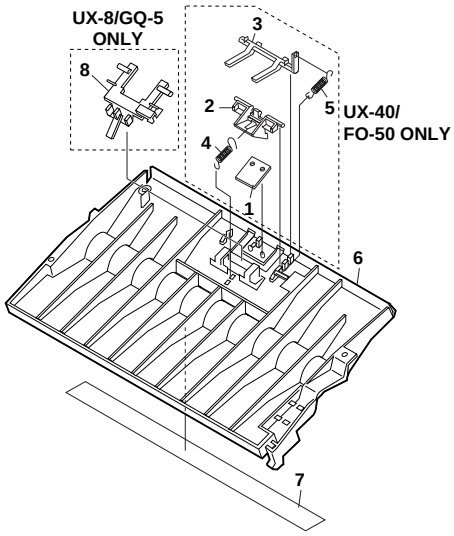
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[2] Scanner unit						
1	LBSHP2110XHZZ	AB		C	Back roller bearing	
2	LFRM-2209XHZZ	AF		C	Scanner frame	
3	LHLDZ2180XHZZ	AC		C	CIS support,left	
4	LHLDZ2181XHZZ	AC		C	CIS support,right	
5	MLEVP2317XHZZ	AB		C	CIS release lever	
6	MSPRC3117XHZZ	AB		C	CIS spring	
7	NGERH2479XHZZ	AB		C	Back roller gear	
8	NGERH2480XHZZ	AB		C	Reduction gear,17/28Z	
9	NGERH2481XHZZ	AB		C	Reduction gear,17/23Z	[40/50]
10	NROLR2375XHZZ	AL		C	Feed roller	[40/50]
11	NROLR2428XHZZ	AP		C	Back roller	
12	NSFTZ2273XHZZ	AF		C	Feed roller shaft	[40/50]
13	PGIDM2562XHZA	AD	N	C	Document guide lower	[8/5]
	PGIDM2562XHZZ	AD		C	Document guide lower	[40/50]
14	PSHEZ3436XHZZ	AC		C	CIS protect sheet	
15	QCNW-211AXHZZ	AF		C	CIS cable	
16	QCNW-213AXHZZ	AC		C	Front sensor cable	[40/50]
17	QSW-M2293XHZZ	AE		B	Front sensor	[40/50]
18	RUNTZ2054XHZZ	BE		B	CIS unit	
19	LBNDJ2006XHZZ	AA		C	Band(100mm)	[40/50]
20	RCORF2123XHZZ	AD		B	Core	[40/50]

[3] Upper cabinet



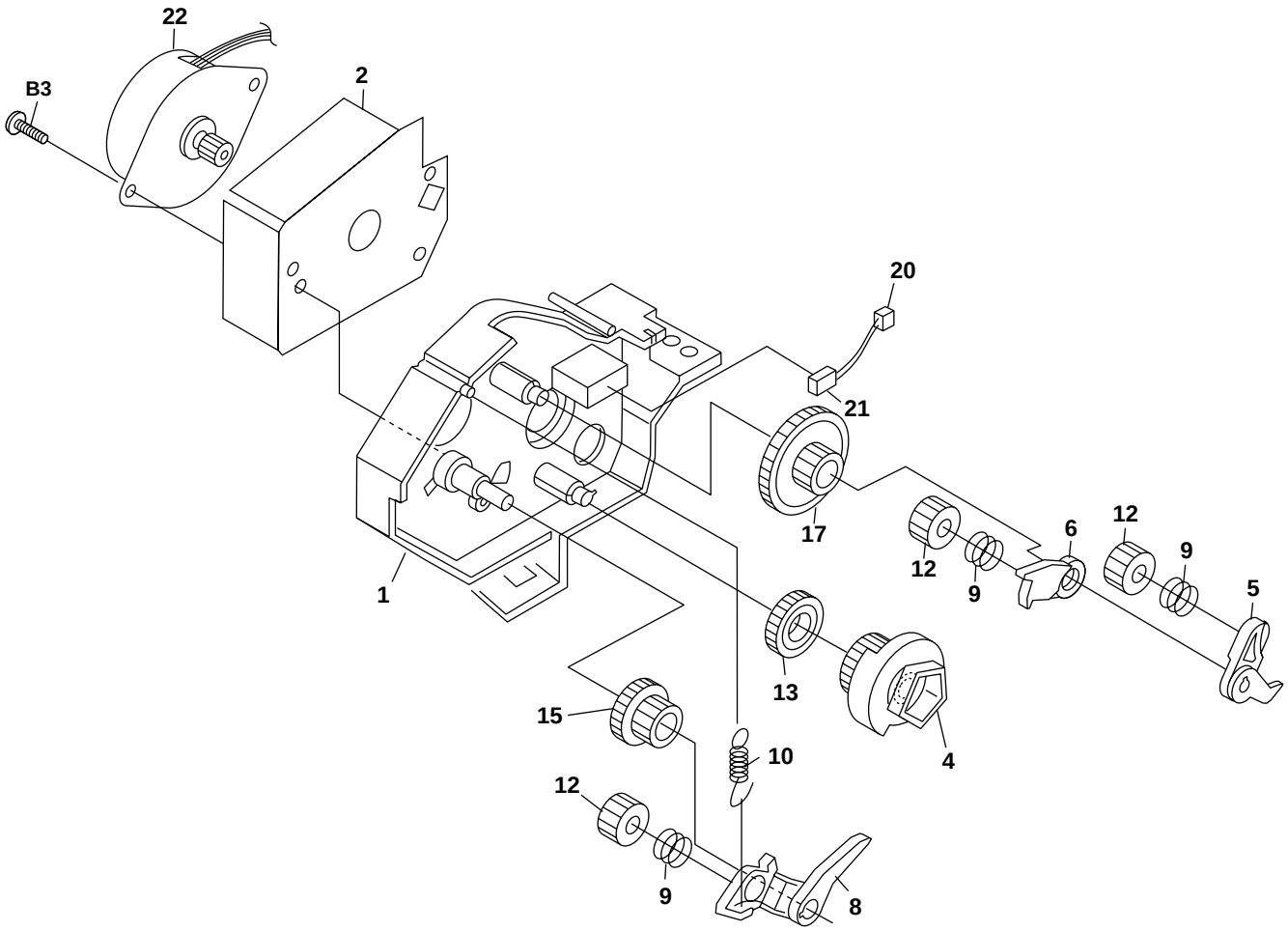
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] Upper cabinet					
1	CCNW-212AXH01	AK		C	Panel cable ass'y
3	GCABA2342XHSA	AH		D	Upper cabinet [8/40]
	GCABA2342XHSB	AH	N	D	Upper cabinet [5]
	GCABA2342XHSC	AH		D	Upper cabinet [50]
4	JBTN-2257XHSD	AD		C	12 key
5	JBTN-2258XHSA	AC		C	Start key [8/40]
	JBTN-2258XHSB	AC	N	C	Start key [5]
	JBTN-2258XHSC	AC		C	Start key [50]
6	JBTN-2261XHSA	AC		C	Direct key [40]
	JBTN-2261XHSC	AC		C	Direct key [50]
7	DCEKP482BXH02	AP	N	E	Operation panel PWB unit [8/5]
	DCEKP482BXH01	AQ		E	Operation panel PWB unit [40/50]
B2	XUBSD20P06000	AA		C	Screw(2x6)
	(Unit)				
901	DCEKP481BXH18	AP	N	E	Operation panel unit [8]
	DCEKP481BXH04	AP		E	Operation panel unit [40]
	DCEKP481BXH19	AP	N	E	Operation panel unit [5]
	DCEKP481BXH05	AP		E	Operation panel unit [50]

[4] Document guide upper



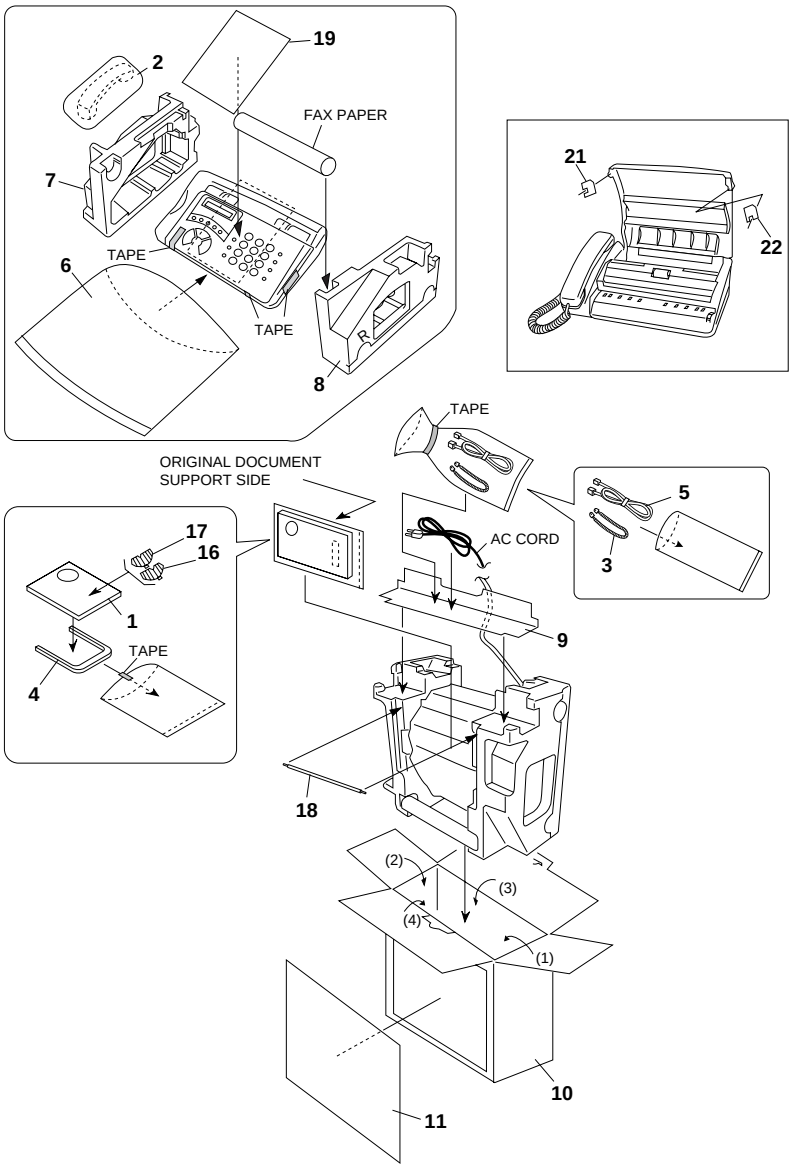
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[4] Document guide upper					
1	LPLTG2911XHZZ	AE		C	Separator rubber [40/50]
2	LPLTP2908XHZZ	AE		C	Separator plate [40/50]
3	LPLTP3051XHZZ	AB		C	Feed plate [40/50]
4	MSPRT3140XHZZ	AA		C	Separate spring [40/50]
5	MSPRT3139XHZZ	AA		C	Feed spring [40/50]
6	PGIDM2554XHZZ	AF		C	Document guide upper
7	PSHEZ3517XHZZ	AE	N	C	Blind sheet
8	LPLTP3058XHZZ	AD	N	C	Document guide piece [8/5]

[5] Drive unit



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[5] Drive unit					
1	LFRM-2207XHZZ	AF	N	C	Drive unit frame
2	LPLTM3049XHZZ	AD		C	Motor plate
4	MCAMP2027XHZZ	AC		C	Cam
5	MLEVP2311XHZZ	AB		C	Planet lever A
6	MLEVP2312XHZZ	AB	N	C	Planet lever B
8	MLEVP2314XHZZ	AB		C	Mode lever
9	MSPRC2735XHZZ	AC		C	Planet gear spring
10	MSPRC3110XHZZ	AB		C	Cam spring
12	NGERH2278XHZZ	AC		C	Planet gear
13	NGERH2379XHZZ	AC		C	Idler gear,25Z
15	NGERH2391XHZZ	AC		C	Reduction gear,17/30Z
17	NGERH2475XHZZ	AB		C	Reduction gear,17/43Z
20	QCNW-4933XHZZ	AC		C	Cam switch cable
21	QSW-F2224SCZZ	AE		B	Cam switch
22	RMOTZ2148XHZZ	AT		B	Motor
B3	XEBSD30P08000	AA		C	Screw(3x8)

[6] Packing material & Accessories



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[6] Packing material & Accessories						
1	TINST4026XHZZ	AY		D	Operation manual	
2	DUNTK468BXHPU	AH		E	Handset	
3	QCNW-3976XHBG	AK		C	Handset cord	[8/40]
	QCNW-3976XHOG	AT		C	Handset cord	[5]
	QCNW-3976XHOW	AK		C	Handset cord	[50]
4	PHOP-2105XHZZ	AD		C	Original document support	
5	QCNW-3975XHGY	AG		C	Telephone line cord	
6	SPAKP296BXHZZ	AE		D	Vinyl cover	
7	SPAKA287BXHZZ	AE		D	Packing add.,left	
8	SPAKA288BXHZZ	AE		D	Packing add.,right	
9	SPAKA289BXHZZ	AC		D	Pad	
10	SPAKC178BXHZZ	AH	N	D	Packing case	[8]
	SPAKC189BXHZZ	AH	N	D	Packing case	[40]
	SPAKC187BXHZZ	AH	N	D	Packing case	[5]
	SPAKC194BXHZZ	AH	N	D	Packing case	[50]
11	TLABM341AXHZZ	AD	N	D	Box label	[8]
	TLABM345AXHZZ	AD	N	D	Box label	[40]
	TLABM344AXHZZ	AD	N	D	Box label	[5]
	TLABM347AXHZZ	AD	N	D	Box label	[50]
16	PGIDM2578XHZZ	AE		C	Paper roll shim,right	
17	PGIDM2579XHZZ	AE		C	Paper roll shim,left	
18	NSFTZ2320XHZZ	AF		C	Paper shaft	
19	TCADZ2935XHZZ	AA		D	Caution sheet	
21	SPAKA388BXHZZ	AE		D	Protection sheet,left	
22	SPAKA389BXHZZ	AE		D	Protection sheet,right	

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[7] Control PWB unit						
1	UBATL2046SCZZ	AK		B	Battery(CR2032T34)	[BAT1]
2	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C1]
3	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C2]
4	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C3]
5	VCKYTV1HB103K	AB		C	Capacitor(50WV 0.01μF)	[C4]
6	VCEAGA1HW106M	AA		C	Capacitor(50WV 10μF)	[C5]
7	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C6]
8	VCEAGA1HW106M	AA		C	Capacitor(50WV 10μF)	[C7]
9	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[C8]
10	VCEAGA1EW476M	AA		C	Capacitor(25WV 47μF)	[C9]
11	VCEAGA1EW476M	AA		C	Capacitor(25WV 47μF)	[C11]
12	VCEAGA1HW106M	AA		C	Capacitor(50WV 10μF)	[C15]
13	VCEAGA1HW226M	AB		C	Capacitor(50WV 22μF)	[C17]
14	VCEAGA1EW476M	AA		C	Capacitor(25WV 47μF)	[C18]
15	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C19]
16	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C20]
17	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C22]
18	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C100]
19	VCCCTV1HH120J	AA		C	Capacitor(50WV 12PF)	[C101]
20	VCCCTV1HH120J	AA		C	Capacitor(50WV 12PF)	[C102]
21	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C103]
22	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C104]
23	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C105]
24	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C106]
25	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C107]
26	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C108]
27	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C109][40/50]
28	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C110]
29	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C111]
30	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C112]
31	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C113]
32	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C114]
33	VCCCTV1HH220J	AA		C	Capacitor(50WV 22PF)	[C115]
34	VCCCTV1HH220J	AA		C	Capacitor(50WV 22PF)	[C116]
35	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C118]
36	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C119]
37	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C120]
38	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C121]
39	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C122]
40	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C123]
41	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C124]
42	VCCCTV1HH220J	AA		C	Capacitor(50WV 22PF)	[C125]
43	VCCCTV1HH220J	AA		C	Capacitor(50WV 22PF)	[C126]
44	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C127]
45	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C128]
46	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C129]
47	VCKYTV1EB104K	AA		C	Capacitor(25WV 0.1μF)	[C130]
48	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C131]
49	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C132]
50	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C133]
51	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C134]
52	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C135]
53	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C136]
54	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C137]
55	VCCCTV1HH220J	AA		C	Capacitor(50WV 22PF)	[C138]
56	VCCCTV1HH220J	AA		C	Capacitor(50WV 22PF)	[C139]
57	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C140]
58	VCCCTV1HH220J	AA		C	Capacitor(50WV 22PF)	[C141]
59	VCCCTV1HH220J	AA		C	Capacitor(50WV 22PF)	[C142]
60	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C143]
61	RCILZ2145XHZZ	AF		C	Coil(HM601)	[C144]
62	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C145]
63	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C146]
64	RCILZ2145XHZZ	AF		C	Coil(HM601)	[C147]
65	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C148]
66	VCCCTV1HH220J	AA		C	Capacitor(50WV 22PF)	[C150]
67	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[C151]
68	VCKYTV1EB104K	AA		C	Capacitor(25WV 0.1μF)	[C154]
69	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[C156]
70	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[C157]
71	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C158]
72	VCKYTV1HB221K	AA		C	Capacitor(50WV 220PF)	[C159]
73	VCKYTV1HB103K	AB		C	Capacitor(50WV 0.01μF)	[C160]
74	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C161]
75	VCKYTV1HB472K	AA		C	Capacitor(50WV 4700PF)	[C164]
76	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C165]
77	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C166]
78	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C167]
79	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C170]
80	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C171]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[7] Control PWB unit						
81	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C172]
82	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C173]
83	QCNCM7014SC0G	AB		C	Connector(7pin)	[CNCIS]
84	QCNCM2442SC0B	AB		C	Conector(2pin)	[CNCSW]
85	QCNCM705BAF06	AB		C	Connector(2pin)	[CNDR]
86	QCNCM7014SC0B	AD		C	Connector(2pin)	[CNFRS][40/50]
87	QCNCW2500SC1B	AF		C	Connector(12pin)	[CNLIUA]
88	QCNCM7014SC0F	AB		C	Connector(6pin)	[CNMT]
89	QCNCM7014SC1F	AD		C	Connector(16pin)	[CNPN]
90	QCNCW2500SC0H	AF		C	Connector(8pin)	[CNPW]
91	QCNCM2401SC0B	AA		C	Connector(2pin)	[CNSP]
92	QCNCM7014SC1F	AD		C	Connector(16pin)	[CNTH]
93	VRS-HT3AA101J	AA		C	Resistor(1W 100Ω ±5%)	[D1]
94	VHD1SS355//-1	AB		B	Diode(1SS355)	[D100]
95	VHD1SS355//-1	AB		B	Diode(1SS355)	[D101]
96	VHD1SS355//-1	AB		B	Diode(1SS355)	[D102]
97	VHDHRW0202B-1	AD		B	Diode(HRW0202B)	[D103]
98	VHD1SS355//-1	AB		B	Diode(1SS355)	[D104]
99	QFS-P2010SCZZ	AD		B	IC protector(KAB2402)	[FU100]
100	VHITC7WT74FU1	AF		B	IC(TC7WT74)	[IC1]
101	VHIFC2FM209-1	BD		B	IC(FC200)(Within IC2 and IC4 pair)	[IC2]
102	VHIW24258S7LE	AQ		B	IC(W24258S-70LE)	[IC3]
103	VHIFC2FM209-1	BD		B	IC(FM209)(Within IC2 and IC4 pair)	[IC4]
104	QSOCZ2051SC32	AC		C	IC socket(32pin)	[IC5]
	VHI27010FZJ0B	BM	N	B	IC,EPROM(1MB)	[IC5][8/5]
	VHI27010FZK0A	BM	N	B	IC,EPROM(1MB)	[IC5][40/50]
106	VHINJM2113M-1	AG		B	IC(NJM2113M)	[IC6]
107	VHIULN2003AN/	AE		B	IC(ULN2003ANS)	[IC8]
108	VHIXC61AN45M1	AE		B	IC(XC61AN4502ML)	[IC101]
109	RCILZ2145XHZZ	AF		C	Coil(HM601)	[L1]
110	RCILZ2145XHZZ	AF		C	Coil(HM601)	[L3]
111	RCILZ2145XHZZ	AF		C	Coil(HM601)	[L4]
112	RCILZ2145XHZZ	AF		C	Coil(HM601)	[L100]
113	RCILZ2145XHZZ	AF		C	Coil(HM601)	[L101]
114	RCILZ2145XHZZ	AF		C	Coil(HM601)	[L102]
115	RCILZ2145XHZZ	AF		C	Coil(HM601)	[L103]
116	RCILZ2145XHZZ	AF		C	Coil(HM601)	[L104]
117	RCILZ2145XHZZ	AF		C	Coil(HM601)	[L105]
118	RCILZ2145XHZZ	AF		C	Coil(HM601)	[L106]
119	VHPSG206S//-1	AG		B	Photo transistor(SG206S)	[PI2]
120	VS2SA1037KS-1	AB		B	Transistor(2SA1037KS)	[Q100]
121	VS2SA1037KS-1	AB		B	Transistor(2SA1037KS)	[Q104]
122	VRS-TS2AD271J	AA		C	Resistor(1/10W 270Ω ±5%)	[R4]
123	VRS-TS2AD333J	AA		C	Resistor(1/10W 33KΩ ±5%)	[R6]
124	VRS-TS2AD103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R8]
125	VRS-TS2AD106J	AA		C	Resistor(1/10W 10MΩ ±5%)	[R12]
126	VRS-TS2AD3R0J	AA		C	Resistor(1/10W 3.0Ω ±5%)	[R14]
127	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R17]
128	VRS-TS2AD201J	AG		C	Resistor(1/10W 200Ω ±5%)	[R100]
129	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R101]
130	VRS-TS2AD471J	AA		C	Resistor(1/10W 470Ω ±5%)	[R102]
131	VRS-TS2AD471J	AA		C	Resistor(1/10W 470Ω ±5%)	[R103]
132	VRS-TS2AD271J	AA		C	Resistor(1/10W 270Ω ±5%)	[R104]
133	VRS-TS2AD333J	AA		C	Resistor(1/10W 33KΩ ±5%)	[R105]
134	VRS-TS2AD333J	AA		C	Resistor(1/10W 33KΩ ±5%)	[R106]
135	VRS-TS2AD333J	AA		C	Resistor(1/10W 33KΩ ±5%)	[R107]
136	VRS-TS2AD223J	AA		C	Resistor(1/10W 22KΩ ±5%)	[R108]
137	VRS-TS2AD151J	AA		C	Resistor(1/10W 150Ω ±5%)	[R109]
138	VRS-TS2AD471J	AA		C	Resistor(1/10W 470Ω ±5%)	[R110]
139	VRS-TS2AD333J	AA		C	Resistor(1/10W 33KΩ ±5%)	[R111]
140	VRS-TS2AD201J	AG		C	Resistor(1/10W 200Ω ±5%)	[R112]
141	VRS-TS2AD333J	AA		C	Resistor(1/10W 33KΩ ±5%)	[R113]
142	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R114]
143	VRS-TS2AD471J	AA		C	Resistor(1/10W 470Ω ±5%)	[R115]
144	VRS-TS2AD471J	AA		C	Resistor(1/10W 470Ω ±5%)	[R117]
145	VRS-TS2AD333J	AA		C	Resistor(1/10W 33KΩ ±5%)	[R119]
146	VRS-TS2AD333J	AA		C	Resistor(1/10W 33KΩ ±5%)	[R120]
147	VRS-TS2AD223J	AA		C	Resistor(1/10W 22KΩ ±5%)	[R121]
148	VRS-TS2AD103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R122]
149	VRS-TS2AD333J	AA		C	Resistor(1/10W 33KΩ ±5%)	[R123]
150	VRS-TS2AD333J	AA		C	Resistor(1/10W 33KΩ ±5%)	[R124]
151	VRS-TS2AD333J	AA		C	Resistor(1/10W 33KΩ ±5%)	[R125]
152	VRS-TS2AD333J	AA		C	Resistor(1/10W 33KΩ ±5%)	[R126]
153	VRS-TS2AD512J	AA		C	Resistor(1/10W 5.1KΩ ±5%)	[R128]
154	VRS-TS2AD102J	AA		C	Resistor(1/10W 1KΩ ±5%)	[R129]
155	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R130]
156	VRS-TS2AD105J	AA		C	Resistor(1/10W 1.0MΩ ±5%)	[R131]
157	VRS-TS2AD103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R132]
158	VRS-TS2AD121J	AA		C	Resistor(1/10W 120Ω ±5%)	[R133]
159	VRS-TS2AD222J	AA		C	Resistor(1/10W 2.2KΩ ±5%)	[R134]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[7] Control PWB unit						
160	VRS-TS2AD333J	AA		C	Resistor(1/10W 33KΩ ±5%)	[R135]
161	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R136]
162	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R138]
163	VRS-TS2AD224J	AA		C	Resistor(1/10W 220KΩ ±5%)	[R139]
164	VRS-TS2AD153J	AA		C	Resistor(1/10W 15KΩ ±5%)	[R140]
165	VRS-TS2AD203J	AA		C	Resistor(1/10W 20KΩ ±5%)	[R141]
166	VRS-TS2AD303J	AA		C	Resistor(1/10W 30KΩ ±5%)	[R142]
167	VRS-TS2AD433J	AA		C	Resistor(1/10W 43KΩ ±5%)	[R143]
168	VRS-TS2AD103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R144]
169	VRS-TS2AD102J	AA		C	Resistor(1/10W 1KΩ ±5%)	[R145]
170	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R146]
171	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R148]
172	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R152]
173	VRS-TS2AD334J	AA		C	Resistor(1/10W 330KΩ ±5%)	[R153]
174	VRS-TS2AD104J	AA		C	Resistor(1/10W 100KΩ ±5%)	[R154]
175	VRS-TS2AD104J	AA		C	Resistor(1/10W 100KΩ ±5%)	[R155]
176	VRS-TS2AD102J	AA		C	Resistor(1/10W 1KΩ ±5%)	[R156]
177	VRS-TS2AD203J	AA		C	Resistor(1/10W 20KΩ ±5%)	[R157]
178	VRS-TS2AD512J	AA		C	Resistor(1/10W 5.1KΩ ±5%)	[R158]
179	VRS-TS2AD562J	AA		C	Resistor(1/10W 5.6KΩ ±5%)	[R160]
180	VRS-TS2AD474J	AA		C	Resistor(1/10W 470KΩ ±5%)	[R161]
181	VRS-TS2AD203J	AA		C	Resistor(1/10W 20KΩ ±5%)	[R162]
182	VRS-TS2AD104J	AA		C	Resistor(1/10W 100KΩ ±5%)	[R165]
183	VRS-TS2AD271J	AA		C	Resistor(1/10W 270Ω ±5%)	[R167]
184	VRS-TS2AD103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R168]
185	VRS-TS2AD471J	AA		C	Resistor(1/10W 470Ω ±5%)	[R169]
186	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R170]
187	RR-TZ3018SCZZ	AC		C	Block resistor(470Ωx4)	[RA1]
188	RR-TZ3017SCZZ	AC		C	Block resistor(270Ωx4)	[RA2]
189	RR-TZ3017SCZZ	AC		C	Block resistor(270Ωx4)	[RA3]
190	RR-TZ3018SCZZ	AC		C	Block resistor(470Ωx4)	[RA4]
191	RR-TZ3018SCZZ	AC		C	Block resistor(470Ωx4)	[RA5]
192	RR-TZ3017SCZZ	AC		C	Block resistor(270Ωx4)	[RA6]
193	RR-TZ3017SCZZ	AC		C	Block resistor(270Ωx4)	[RA7]
194	RR-TZ3018SCZZ	AC		C	Block resistor(470Ωx4)	[RA8]
195	RR-TZ3017SCZZ	AC		C	Block resistor(270Ωx4)	[RA9]
196	RR-TZ3018SCZZ	AC		C	Block resistor(470Ωx4)	[RA11]
197	RR-TZ3018SCZZ	AC		C	Block resistor(470Ωx4)	[RA12]
198	RR-TZ3018SCZZ	AC		C	Block resistor(470Ωx4)	[RA13]
199	RR-TZ3018SCZZ	AC		C	Block resistor(470Ωx4)	[RA14]
200	VHI62FP332P-1	AF		B	IC(XC62FP3302P)	[REG100]
201	RRLYD3138XHZZ	AG		B	Relay(DQ24D1)	[RY1]
202	RCRSQ2157SCZZ	AF	N	B	Crystal(32.256MHz)	[X1]
203	RCRSB0297AFZZ	AD		B	Crystal(32.768kHz)	[X2]
	(Unit)					
901	DCEKC689MXHZZ	BP	N	E	Control PWB unit(Within ROM)	[8]
	DCEKC685MXHZZ	BP	N	E	Control PWB unit(Within ROM)	[40/50]
	DCEKC780MXHZZ	BP	N	E	Control PWB unit(Within ROM)	[5]
[8] TEL/Liu PWB unit						
1	VHVRA391PV6-1	AE		B	Varistor(RA-391P-V6-2)	[AR1]
2	QCNW-4753XHZZ	AE		C	Cable	[ARG]
3	RC-FZ3024SCZZ	AG		C	Capacitor(250WV 0.82μF)	[C3]
4	VCEAGA1HW226M	AB		C	Capacitor(50WV 22μF)	[C5]
5	VCEAGA1HW226M	AB		C	Capacitor(50WV 22μF)	[C6]
6	VCEAGA1HW106M	AA		C	Capacitor(50WV 10μF)	[C7]
7	VCEAGA1HW475M	AA		C	Capacitor(50WV 4.7μF)	[C9]
8	VCEAGA1HW226M	AB		C	Capacitor(50WV 22μF)	[C11]
9	VCEAGA1HW226M	AB		C	Capacitor(50WV 22μF)	[C12]
10	VCEAGA1HW226M	AB		C	Capacitor(50WV 22μF)	[C13]
11	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C104]
12	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C105]
13	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C106]
14	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C107]
15	VCKYTV1HB392K	AA		C	Capacitor(50WV 3900PF)	[C108]
16	VCKYTV1HB221K	AA		C	Capacitor(50WV 220PF)	[C109]
17	VCKYTV1HB221K	AA		C	Capacitor(50WV 2200PF)	[C111]
18	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C112]
19	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C113]
20	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C114]
21	VCCCTV1HH330J	AA		C	Capacitor(50WV 33PF)	[C115]
22	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C117]
23	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C118]
24	VCKYTV1HB821K	AA		C	Capacitor(50WV 820PF)	[C120]
25	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[C122]
26	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[C124]
27	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[C127]
28	RRLYZ3433XHZZ	AG		B	Relay	[CML1]
29	QJAKZ2079XH0D	AD		C	Jack	[CNHJ]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[8] TEL/Liu PWB unit						
30	QCNCM2548SC1B	AH		C	Connector(12pin)	[CNLIUA]
31	QJAKZ2060SC0B	AD		C	Jack	[CNLNJ]
32	QJAKZ2060SC0B	AD		C	Jack	[CNTLJ]
33	VHDDSS133//-1	AA		B	Diode(1SS133)	[D1]
34	VHDDSS133//-1	AA		B	Diode(1SS133)	[D4]
35	QSW-Z2263XHZZ	AG		B	Hook switch	[HOOK SW]
36	VHINJM2904M-2	AG		B	IC(NJM2904M)	[IC101]
37	VHINJM2904M-2	AG		B	IC(NJM2904M)	[IC102]
38	RFILN2027XHZZ	AC		C	Coil(R-5C)	[L3A]
39	RFILN2027XHZZ	AC		C	Coil(R-5C)	[L3B]
40	RFILN2027XHZZ	AC		C	Coil(R-5C)	[L6]
41	RFILN2027XHZZ	AC		C	Coil(R-5C)	[L7]
42	RFILN2027XHZZ	AC		C	Coil(R-5C)	[L8]
43	VHPTLP521-1BL	AE		B	Photo coupler(TLP521)	[PC5]
44	VS2SC2412KR-1	AD		B	Transistor(2SC2412K)	[Q101]
45	VSRNC1402//-1	AC		B	Transistor(RNC1402)	[Q104]
46	VSRNC1402//-1	AC		B	Transistor(RNC1402)	[Q107]
47	VRD-HT2HY223J	AA		C	Resistor(1/2W 22KΩ ±5%)	[R3]
48	VRS-TS2AD433J	AA		C	Resistor(1/10W 43KΩ ±5%)	[R101]
49	VRS-TS2AD152J	AA		C	Resistor(1/10W 1.5KΩ ±5%)	[R108]
50	VRS-TS2AD102J	AA		C	Resistor(1/10W 1KΩ ±5%)	[R109]
51	VRS-TS2AD512J	AA		C	Resistor(1/10W 5.1KΩ ±5%)	[R110]
52	VRS-TS2AD203J	AA		C	Resistor(1/10W 20KΩ ±5%)	[R111]
53	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R112]
54	VRS-TS2AD203J	AA		C	Resistor(1/10W 20KΩ ±5%)	[R113]
55	VRS-TS2AD433J	AA		C	Resistor(1/10W 43KΩ ±5%)	[R114]
56	VRSTS2AD8662F	AA		C	Resistor(1/10W 86.6KΩ ±1%)	[R115]
57	VRS-TS2AD332J	AA		C	Resistor(1/10W 3.3KΩ ±5%)	[R116]
58	VRS-TS2AD101J	AA		C	Resistor(1/10W 100Ω ±5%)	[R118]
59	VRS-TS2AD151J	AA		C	Resistor(1/10W 150Ω ±5%)	[R123]
60	VRS-TS2AD332J	AA		C	Resistor(1/10W 3.3KΩ ±5%)	[R125]
61	VRS-TS2AD224J	AA		C	Resistor(1/10W 220KΩ ±5%)	[R126]
62	VRS-TS2AD683J	AA		C	Resistor(1/10W 68KΩ ±5%)	[R127]
63	VRS-TS2AD822J	AA		C	Resistor(1/10W 8.2KΩ ±5%)	[R128]
64	VRS-TS2AD621J	AA		C	Resistor(1/10W 620Ω ±5%)	[R129]
65	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R130]
66	VRS-TS2AD332J	AA		C	Resistor(1/10W 3.3KΩ ±5%)	[R131]
67	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R132]
68	VRS-TS2AD513J	AA		C	Resistor(1/10W 51KΩ ±5%)	[R133]
69	VRS-TS2AD203J	AA		C	Resistor(1/10W 20KΩ ±5%)	[R134]
70	VRS-TS2AD102J	AA		C	Resistor(1/10W 1KΩ ±5%)	[R135]
71	VRS-TS2AD203J	AA		C	Resistor(1/10W 20KΩ ±5%)	[R140]
72	VRS-TS2AD473J	AA		C	Resistor(1/10W 47KΩ ±5%)	[R141]
73	VRS-TS2AD332J	AA		C	Resistor(1/10W 3.3KΩ ±5%)	[R142]
74	VRS-TS2AD473J	AA		C	Resistor(1/10W 47KΩ ±5%)	[R143]
75	VRS-TS2AD472J	AA		C	Resistor(1/10W 4.7KΩ ±5%)	[R144]
76	RTRNI2164XHZZ	AG		B	Transformer	[T1]
77	VHVERZV5D471/	AC		B	Varistor(ERZV5D471)	[VA1]
78	VHVERZV5D471/	AC		B	Varistor(ERZV5D471)	[VA2]
79	VHEHZ27-1//-1	AB		B	Zener diode(HZ27)	[ZD4]
	(Unit)					
901	DCEKL483BXH02	AX		E	TEL/Liu PWB unit	
[9] Power supply PWB unit						
1	0CBUGFM224KR/	AF		C	Capacitor(RE224-C)	[C1]
2	0CBUGZ1072ZZ/	AN		C	Capacitor(KMF400VB68M)	[C2]
3	0CBUGCV102HZ/	AD		C	Capacitor(ECKZ3D102KBP)	[C3]
4	0CBUGXAEF222/	AC		C	Capacitor(GRM40B222K50PT)	[C4]
5	0CBUEXCAO000/	AB		C	Resistor(MCR10EZHJ000)	[C6]
6	0CBUGCM392BJ/	AF		C	Capacitor(DE1510-1E392M-KX)	[C7]
7	0CBUGAE561TS/	AH		C	Capacitor(LXJ35VB560(M))	[C8]
8	0CBUGFF474JA/	AF		C	Capacitor(ECQV1H474JL3)	[C9]
9	0CBUGAC222VV/	AK		C	Capacitor(LXZ16VB2200(K))	[C10]
10	0CBUGXAED104/	AC		C	Capacitor(GRM40B104K25PT)	[C12]
11	0CBUGZ1041ZZ/	AF		C	Capacitor(DE1007E222M-KH)	[C15]
12	0CBUGAB101RV/	AF		C	Capacitor(KME10VB100(M))	[C16]
13	0CBUGXAEF102/	AC		C	Capacitor(GRM40B102K50PT)	[C17]
14	0CBUGCU681BR/	AC		C	Capacitor(DEO805R681K1K-MHR)	[C21]
15	0CBUGFF223EH/	AC		C	Capacitor(AMZV-223J50)	[C24]
16	0CBPKZ0194ZZ/	AC		C	Base post ass'y(B 2P3-VH)	[CN1]
17	0CBPCZ0275ZZ/	AD		C	Connector(8PL-FJ)	[CN2]
18	0CBUBC0125DK/	AD		B	Diode(ERA15-06)	[D1]
19	0CBUBC0125DK/	AD		B	Diode(ERA15-06)	[D2]
20	0CBUBC0125DK/	AD		B	Diode(ERA15-06)	[D3]
21	0CBUBC0125DK/	AD		B	Diode(ERA15-06)	[D4]
22	0CBUBY0020AK/	AD		B	Diode(1SS355)	[D5]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[9] Power supply PWB unit						
23	0CBUBC0336AZ/	AL		B	Diode(S3L20U-4004P15)	[D7]
24	0CBUBC0302BZ/	AE		B	Diode(SR140)	[D8]
25	0CBPJCEJ1601/	AH		A	Current fuse(21501.6 ME600)	[F1]
26	0CBPJCEJ1601/	AH		A	Current fuse(21501.6 ME600)	[F2]
27	0CBPZZ0906ZZ/	AH		A	Circuit protect chip(CCP2E100)	[F3]
28	0CBBFZ89256Z/	AD		B	Beads core(BL02RNI-R62T4)	[FB1]
29	0CBUCB0199AZ/	AR		B	IC(UPC29M05AHF)	[IC1]
30	0CBUKZ0826ZZ/	AK		C	Filter(ELF15N003A)	[L1]
31	0CBUZZ0156ZZ/	AN		C	Coil(RS208)	[L2]
32	0CBPZZ0940ZZ/	AB		C	Jumper(J1/6Z-T26-A)	[L3]
33	0CBLRZ6616ZN/	AQ		C	Heat sink(MN903-5001AT)	[MT1]
34	0CBLRZ6619ZQ/	AQ		C	Heat sink(MF903-5002AT)	[MT2]
35	0CBUDC0163CZ/	AG		B	Photo coupler(PC123YS)	[PC1]
36	0CBUDC0163CZ/	AG		B	Photo coupler(PC123YS)	[PC2]
37	0CBUAG0161AC/	AQ		B	FET(FS5KM-18A-AN)	[Q1]
38	0CBUDA0128AK/	AD		B	Transistor(2SD2114K)	[Q2]
39	0CBUAY0016CK/	AD		B	Transistor(2SC2412K)	[Q3]
40	0CBUAY0016CK/	AD		B	Transistor(2SC2412K)	[Q4]
41	0CBUAC0289AK/	AD		B	Transistor(2SC4210)	[Q5]
42	0CBUAC0289AK/	AD		B	Transistor(2SC4210)	[Q6]
43	0CBUEEC335CH/	AC		C	Resistor(RDM12TB335J)	[R1]
44	0CBUEEC105CH/	AC		C	Resistor(RDM12TB105J)	[R2]
45	0CBUEEC105CH/	AC		C	Resistor(RDM12TB105J)	[R3]
46	0CBUEXCAS331/	AB		C	Resistor(CR21TR331J)	[R4]
47	0CBUEXCAS152/	AB		C	Resistor(CR21TR152J)	[R5]
48	0CBUEXCAS183/	AB		C	Resistor(CR21TR183J)	[R6]
49	0CBUEXCAS330/	AB		C	Resistor(CR21TR330J)	[R7]
50	0CBUEXCAS473/	AB		C	Resistor(CR21TR473J)	[R8]
51	0CBUEXCAS471/	AB		C	Resistor(CR21TR471J)	[R9]
52	0CBUEFDR33DB/	AE		C	Resistor(RSMF1TBR33G)	[R10]
53	0CBUEXCAS390/	AB		C	Resistor(CR21TR390J)	[R11]
54	0CBUEXCAS184/	AB		C	Resistor(CR21TR184J)	[R12]
55	0CBUEXCAS472/	AB		C	Resistor(CR21TR472J)	[R13]
56	0CBUEXCAS152/	AB		C	Resistor(CR21TR152J)	[R14]
57	0CBUEXCAS334/	AB		C	Resistor(CR21TR334J)	[R15]
58	0CBUEXCAS223/	AB		C	Resistor(CR21TR223J)	[R16]
59	0CBUEXCAS822/	AB		C	Resistor(CR21TR822J)	[R17]
60	0CBUEXCAS273/	AB		C	Resistor(CR21TR273J)	[R18]
61	0CBUEXCAS472/	AB		C	Resistor(CR21TR472J)	[R19]
62	0CBUEXCAS472/	AB		C	Resistor(CR21TR472J)	[R20]
63	0CBUEXCAS154/	AB		C	Resistor(CR21TR154J)	[R21]
64	0CBUEXCAS103/	AB		C	Resistor(CR21TR103J)	[R25]
65	0CB829655027/	BE		B	Transformer(PTTP124-KTT)	[T1]
66	0CBUDC0232AK/	AF		B	Thermistor(KL07L8R2TB)	[TH1]
67	0CBUEZ0507ZZ/	AD		B	Varistor(ERZV07D471)	[V1]
68	0CBUFBA102FE/	AD		B	Variable resistor(ENV CYA A01 B13)	[VR1]
69	0CBUBDAX270A/	AD		B	Zener diode(RD27SB)	[ZD1]
70	0CBUBXAD2R0A/	AD		B	Zener diode(RD2.0SB)	[ZD2]
71	0CBUBDBM300D/	AC		B	Zener diode(RD30FB)	[ZD4]
72	0CBUBXAD6R2C/	AD		B	Zener diode(RD6.2SB)	[ZD5]
73	0CBUBDBE200D/	AD		B	Zener diode(RD20ESAB)	[ZD7]
	(Unit)					
⚠ 901	RDENT2144XHZZ	BA		E	Power supply PWB unit	

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PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
[C]				
CCNW-212AXH01	1-2	AK		C
〃	3-1	AK		C
CCNW-215AXH01	1-12	AG		C
[D]				
DCEKC685MXHZZ	1-45	BP	N	E
〃	7-901	BP	N	E
DCEKC689MXHZZ	1-45	BP	N	E
〃	7-901	BP	N	E
DCEKC780MXHZZ	1-45	BP	N	E
〃	7-901	BP	N	E
DCEKL483BXH02	1-16	AX		E
〃	8-901	AX		E
DCEKP481BXH04	1-1	AP		E
〃	3-901	AP		E
DCEKP481BXH05	1-1	AP		E
〃	3-901	AP		E
DCEKP481BXH18	1-1	AP	N	E
〃	3-901	AP	N	E
DCEKP481BXH19	1-1	AP	N	E
〃	3-901	AP	N	E
DCEKP482BXH01	3-7	AQ		E
DCEKP482BXH02	3-7	AP	N	E
DUNTK468BXHPU	6-2	AH		E
[G]				
GCABA2342XHSA	3-3	AH		D
GCABA2342XHSB	3-3	AH	N	D
GCABA2342XHSC	3-3	AH		D
GCABB2343XHSA	1-13	AK		D
GCABB2343XHSB	1-13	AK	N	D
GCABB2343XHSC	1-13	AK		D
GCASP2110XHSD	1-17	AK		C
GCASP2110XHSE	1-17	AK		C
GCASP2110XHSF	1-17	AK	N	C
GCASP2111XHSA	1-18	AH		C
GCASP2111XHSB	1-18	AH	N	C
GCASP2111XHSC	1-18	AH	N	C
GDAI-2082XHSD	1-46	AD		C
GDAI-2083XHZZ	1-22	AF		C
[H]				
HPNLH2392XHSU	1-54	AE	N	D
HPNLH2392XHS3	1-54	AE	N	D
HPNLH2394XHSA	1-54	AE	N	D
HPNLH2394XHSE	1-54	AE	N	D
[J]				
JBTN-2257XHSD	3-4	AD		C
JBTN-2258XHSA	3-5	AC		C
JBTN-2258XHSB	3-5	AC	N	C
JBTN-2258XHSC	3-5	AC		C
JBTN-2261XHSA	3-6	AC		C
JBTN-2261XHSC	3-6	AC		C
[L]				
LBNDJ2006XHZZ	1-55	AA		C
〃	2-19	AA		C
LBSHP2110XHZZ	2-1	AB		C
LBSHP2112XHZZ	1-28	AB		C
LFRM-2207XHZZ	5-1	AF	N	C
LFRM-2208XHZZ	1-29	AF		C
LFRM-2209XHZZ	2-2	AF		C
LHLDZ2180XHZZ	2-3	AC		C
LHLDZ2181XHZZ	2-4	AC		C
LHLDZ2184XHZZ	1-30	AC		C
LHLDZ2185XHZZ	1-31	AC		C
LPLTG2911XHZZ	4-1	AE		C
LPLTM3049XHZZ	5-2	AD		C
LPLTP2908XHZZ	4-2	AE		C
LPLTP3051XHZZ	4-3	AB		C
LPLTP3058XHZZ	4-8	AD	N	C
LSTPP2054XHZZ	1-47	AC		C
LX-BZ2138XHZZ	1-B1	AB		C
[M]				
MCAMP2027XHZZ	5-4	AC		C
MLEVP2311XHZZ	5-5	AB		C
MLEVP2312XHZZ	5-6	AB	N	C
MLEVP2314XHZZ	5-8	AB		C
MLEVP2316XHZZ	1-23	AC		C
MLEVP2317XHZZ	2-5	AB		C
MLEVP2319XHZZ	1-49	AC		C
MLEVP2320XHZZ	1-19	AC		C
MLEVP2321XHZZ	1-58	AN	N	C
MSPRC2735XHZZ	5-9	AC		C
MSPRC2954XHZZ	1-5	AC		C
MSPRC3110XHZZ	5-10	AB		C
MSPRC3112XHZZ	1-33	AC		C
MSPRC3117XHZZ	2-6	AB		C
MSPRC3148XHZZ	1-34	AC		C
MSPRD3116XHZZ	1-24	AB		C
MSPRP3119XHZZ	1-14	AC		C
MSPRP3123XHZZ	1-15	AC		C
MSPRT3139XHZZ	4-5	AA		C
MSPRT3140XHZZ	4-4	AA		C
[N]				
NGERH2278XHZZ	5-12	AC		C
NGERH2379XHZZ	5-13	AC		C
NGERH2391XHZZ	5-15	AC		C
NGERH2475XHZZ	5-17	AB		C
NGERH2478XHZZ	1-36	AB		C
NGERH2479XHZZ	2-7	AB		C
NGERH2480XHZZ	2-8	AB		C
NGERH2481XHZZ	2-9	AB		C
NGERP2318XHZZ	1-6	AD		C
NROLR2375XHZZ	2-10	AL		C
NROLR2425XHZZ	1-37	AP		C
NROLR2428XHZZ	2-11	AP		C
NSFTZ2273XHZZ	2-12	AF		C
NSFTZ2320XHZZ	6-18	AF		C
[P]				
PGIDM2554XHZZ	4-6	AF		C
PGIDM2560XHSD	1-7	AE		C
PGIDM2561XHSD	1-8	AC		C
PGIDM2562XHZA	2-13	AD	N	C
PGIDM2562XHZZ	2-13	AD		C
PGIDM2563XHSA	1-27	AE	N	C
PGIDM2563XHSB	1-27	AE	N	C
PGIDM2563XHSC	1-27	AC	N	C
PGIDM2566XHZZ	1-52	AC		C
PGIDM2578XHZZ	6-16	AE		C
PGIDM2579XHZZ	6-17	AE		C
PHOP-2104XHSD	1-9	AF		C
PHOP-2105XHZZ	6-4	AD		C
PSHEZ3410XHZZ	1-56	AB		C
PSHEZ3436XHZZ	2-14	AC		C
PSHEZ3517XHZZ	4-7	AE	N	C
[Q]				
QACCE2042XHZZ	1-20	AL		B
QCNCM2401SC0B	7-91	AA		C
QCNCM2442SC0B	7-84	AB		C
QCNCM2548SC1B	8-30	AH		C
QCNCM7014SC0B	7-86	AD		C
QCNCM7014SC0F	7-88	AB		C
QCNCM7014SC0G	7-83	AB		C
QCNCM7014SC1F	7-89	AD		C
〃	7-92	AD		C
QCNCM705BAF06	7-85	AB		C
QCNCW2500SC0H	7-90	AF		C
QCNCW2500SC1B	7-87	AF		C
QCNW-209AXHZZ	1-39	AH		C
QCNW-210AXHZZ	1-40	AC		C
QCNW-211AXHZZ	2-15	AF		C
QCNW-213AXHZZ	2-16	AC		C
QCNW-3975XHGY	6-5	AG		C
QCNW-3976XHBG	6-3	AK		C
QCNW-3976XHOG	6-3	AT		C
QCNW-3976XHOW	6-3	AK		C
QCNW-4753XHZZ	8-2	AE		C
QCNW-4933XHZZ	5-20	AC		C
QFS-P2010SCZZ	7-99	AD		B
QJAKZ2060SC0B	8-31	AD		C
〃	8-32	AD		C
QJAKZ2079XH0D	8-29	AD		C
QSOCZ2051SC32	7-104	AC		C
QSW-F2224SCZZ	5-21	AE		B
QSW-M2293XHZZ	2-17	AE		B
QSW-M2296XHZZ	1-11	AD		B
QSW-Z2263XHZZ	8-35	AG		B
[R]				
RC-FZ3024SCZZ	8-3	AG		C
RCILZ2145XHZZ	7-61	AF		C
〃	7-64	AF		C
〃	7-109	AF		C
RCILZ2145XHZZ	7-110	AF		C
〃	7-111	AF		C
〃	7-112	AF		C
〃	7-113	AF		C
〃	7-114	AF		C
〃	7-115	AF		C
〃	7-116	AF		C
〃	7-117	AF		C
〃	7-118	AF		C
RCORF2123XHZZ	2-20	AD		B
RCORF2125XHZZ	1-53	AE		B
RCRSB0297AFZZ	7-203	AD		B
RCRSQ2157SCZZ	7-202	AF	N	B
RDENT2144XHZZ	1-21	BA		E
〃	9-901	BA		E
RFILN2027XHZZ	8-38	AC		C
〃	8-39	AC		C
〃	8-40	AC		C
〃	8-41	AC		C
〃	8-42	AC		C
RHEDZ2059XHZZ	1-41	BF		B
RMOTZ2148XHZZ	5-22	AT		B
RR-TZ3017SCZZ	7-188	AC		C
〃	7-189	AC		C
〃	7-192	AC		C
〃	7-193	AC		C
〃	7-195	AC		C
RR-TZ3018SCZZ	7-187	AC		C
〃	7-190	AC		C
〃	7-191	AC		C
〃	7-194	AC		C
〃	7-196	AC		C
〃	7-197	AC		C
〃	7-198	AC		C
〃	7-199	AC		C
RRLYD3138XHZZ	7-201	AG		B
RRLYZ3433XHZZ	8-28	AG		B
RTRNI2164XHZZ	8-76	AG		B
RUNTZ2054XHZZ	2-18	BE		B
[S]				
SPAKA287BXHZZ	6-7	AE		D
SPAKA288BXHZZ	6-8	AE		D
SPAKA289BXHZZ	6-9	AC		D
SPAKA388BXHZZ	6-21	AE		D
SPAKA389BXHZZ	6-22	AE		D
SPAKC178BXHZZ	6-10	AH	N	D
SPAKC187BXHZZ	6-10	AH	N	D
SPAKC189BXHZZ	6-10	AH	N	D
SPAKC194BXHZZ	6-10	AH	N	D
SPAKP296BXHZZ	6-6	AE		D
[T]				
TCADZ2935XHZZ	6-19	AA		D
TINST4026XHZZ	6-1	AY		D
TLABM341AXHZZ	6-11	AD	N	D
TLABM344AXHZZ	6-11	AD	N	D
TLABM345AXHZZ	6-11	AD	N	D
TLABM347AXHZZ	6-11	AD	N	D
[U]				
UBATL2046SCZZ	7-1	AK		B
[V]				
VCCCTV1HH120J	7-19	AA		C
〃	7-20	AA		C
VCCCTV1HH220J	7-33	AA		C
〃	7-34	AA		C
〃	7-42	AA		C
〃	7-43	AA		C
〃	7-55	AA		C
〃	7-56	AA		C
〃	7-58	AA		C
〃	7-59	AA		C
〃	7-66	AA		C
VCCCTV1HH330J	8-21	AA		C
VCEAGA1EW476M	7-10	AA		C
〃	7-11	AA		C
〃	7-14	AA		C
VCEAGA1HW106M	7-6	AA		C
〃	7-8	AA		C
〃	7-12	AA		C
〃	8-6	AA		C
VCEAGA1HW226M	7-13	AB		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VCEAGA1HW226M	8-4	AB		C
〃	8-5	AB		C
〃	8-8	AB		C
〃	8-9	AB		C
〃	8-10	AB		C
VCEAGA1HW475M	8-7	AA		C
VCKYTV1CF105Z	7-17	AB		C
〃	7-21	AB		C
〃	7-24	AB		C
〃	7-29	AB		C
〃	7-30	AB		C
〃	7-32	AB		C
〃	7-38	AB		C
〃	7-39	AB		C
〃	7-40	AB		C
〃	7-41	AB		C
〃	7-44	AB		C
〃	7-49	AB		C
〃	7-50	AB		C
〃	7-51	AB		C
〃	7-53	AB		C
〃	7-57	AB		C
〃	7-62	AB		C
〃	7-63	AB		C
〃	7-65	AB		C
〃	7-71	AB		C
〃	7-76	AB		C
〃	7-77	AB		C
VCKYTV1EB104K	7-47	AA		C
〃	7-68	AA		C
VCKYTV1EF104Z	7-4	AA		C
〃	7-7	AA		C
〃	7-28	AA		C
〃	7-31	AA		C
〃	7-35	AA		C
〃	7-37	AA		C
〃	7-46	AA		C
〃	7-48	AA		C
〃	7-54	AA		C
〃	7-74	AA		C
〃	7-78	AA		C
〃	7-80	AA		C
〃	8-13	AA		C
〃	8-22	AA		C
VCKYTV1HB102K	7-2	AA		C
〃	7-3	AA		C
〃	7-15	AA		C
〃	7-16	AA		C
〃	7-22	AA		C
〃	7-23	AA		C
〃	7-25	AA		C
〃	7-45	AA		C
〃	7-81	AA		C
〃	7-82	AA		C
〃	8-14	AA		C
〃	8-19	AA		C
VCKYTV1HB103K	7-5	AB		C
〃	7-73	AB		C
VCKYTV1HB221K	7-72	AA		C
〃	8-16	AA		C
〃	8-17	AA		C
VCKYTV1HB222K	7-26	AA		C
〃	7-27	AA		C
〃	7-36	AA		C
〃	7-52	AA		C
〃	7-60	AA		C
〃	8-11	AA		C
〃	8-12	AA		C
VCKYTV1HB392K	8-15	AA		C
VCKYTV1HB472K	7-75	AA		C
VCKYTV1HB821K	8-24	AA		C
VCKYTV1HF104Z	7-18	AA		C
〃	7-79	AA		C
〃	8-18	AA		C
〃	8-20	AA		C
〃	8-23	AA		C
VHDDSS133//-1	8-33	AA		B
〃	8-34	AA		B
VHDHRW0202B-1	7-97	AD		B
VHD1SS355//-1	7-94	AB		B

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VHD1SS355//-1	7-95	AB		B
〃	7-96	AB		B
〃	7-98	AB		B
VHEHZ27-1//-1	8-79	AB		B
VHIFC2FM209-1	7-101	BD		B
〃	7-103	BD		B
VHINJM2113M-1	7-106	AG		B
VHINJM2904M-2	8-36	AG		B
〃	8-37	AG		B
VHITC7WT74FU1	7-100	AF		B
VHIULN2003AN/	7-107	AE		B
VHIW24258S7LE	7-102	AQ		B
VHIXC61AN45M1	7-108	AE		B
VHI27010FZJ0B	7-104	BM	N	B
VHI27010FZK0A	7-104	BM	N	B
VHI62FP332P-1	7-200	AF		B
VHPSG206S//-1	7-119	AG		B
VHPTLP521-1BL	8-43	AE		B
VHVERZV5D471/	8-77	AC		B
〃	8-78	AC		B
VHVRA391PV6-1	8-1	AE		B
VRD-HT2HY223J	8-47	AA		C
VRS-HT3AA101J	7-93	AA		C
VRS-TS2AD000J	7-9	AA		C
〃	7-67	AA		C
〃	7-69	AA		C
〃	7-70	AA		C
〃	7-127	AA		C
〃	7-129	AA		C
〃	7-142	AA		C
〃	7-155	AA		C
〃	7-161	AA		C
〃	7-162	AA		C
〃	7-170	AA		C
〃	7-171	AA		C
〃	7-172	AA		C
〃	7-186	AA		C
〃	8-25	AA		C
〃	8-26	AA		C
〃	8-27	AA		C
〃	8-53	AA		C
〃	8-65	AA		C
〃	8-67	AA		C
VRS-TS2AD101J	8-58	AA		C
VRS-TS2AD102J	7-154	AA		C
〃	7-169	AA		C
〃	7-176	AA		C
〃	8-50	AA		C
〃	8-70	AA		C
VRS-TS2AD103J	7-124	AA		C
〃	7-148	AA		C
〃	7-157	AA		C
〃	7-168	AA		C
〃	7-184	AA		C
VRS-TS2AD104J	7-174	AA		C
〃	7-175	AA		C
〃	7-182	AA		C
VRS-TS2AD105J	7-156	AA		C
VRS-TS2AD106J	7-125	AA		C
VRS-TS2AD121J	7-158	AA		C
VRS-TS2AD151J	7-137	AA		C
〃	8-59	AA		C
VRS-TS2AD152J	8-49	AA		C
VRS-TS2AD153J	7-164	AA		C
VRS-TS2AD201J	7-128	AG		C
〃	7-140	AG		C
VRS-TS2AD203J	7-165	AA		C
〃	7-177	AA		C
〃	7-181	AA		C
〃	8-52	AA		C
〃	8-54	AA		C
〃	8-69	AA		C
〃	8-71	AA		C
VRS-TS2AD222J	7-159	AA		C
VRS-TS2AD223J	7-136	AA		C
〃	7-147	AA		C
VRS-TS2AD224J	7-163	AA		C
〃	8-61	AA		C
VRS-TS2AD271J	7-122	AA		C
〃	7-132	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRS-TS2AD271J	7-183	AA		C
VRS-TS2AD3R0J	7-126	AA		C
VRS-TS2AD303J	7-166	AA		C
VRS-TS2AD332J	8-57	AA		C
〃	8-60	AA		C
〃	8-66	AA		C
〃	8-73	AA		C
VRS-TS2AD333J	7-123	AA		C
〃	7-133	AA		C
〃	7-134	AA		C
〃	7-135	AA		C
〃	7-139	AA		C
〃	7-141	AA		C
〃	7-145	AA		C
〃	7-146	AA		C
〃	7-149	AA		C
〃	7-150	AA		C
〃	7-151	AA		C
〃	7-152	AA		C
〃	7-160	AA		C
VRS-TS2AD334J	7-173	AA		C
VRS-TS2AD433J	7-167	AA		C
〃	8-48	AA		C
〃	8-55	AA		C
VRS-TS2AD471J	7-130	AA		C
〃	7-131	AA		C
〃	7-138	AA		C
〃	7-143	AA		C
〃	7-144	AA		C
〃	7-185	AA		C
VRS-TS2AD472J	8-75	AA		C
VRS-TS2AD473J	8-72	AA		C
〃	8-74	AA		C
VRS-TS2AD474J	7-180	AA		C
VRS-TS2AD512J	7-153	AA		C
〃	7-178	AA		C
〃	8-51	AA		C
VRS-TS2AD513J	8-68	AA		C
VRS-TS2AD562J	7-179	AA		C
VRS-TS2AD621J	8-64	AA		C
VRS-TS2AD683J	8-62	AA		C
VRS-TS2AD822J	8-63	AA		C
VRSTS2AD8662F	8-56	AA		C
VSRNC1402//-1	8-45	AC		B
〃	8-46	AC		B
VS2SA1037KS-1	7-120	AB		B
〃	7-121	AB		B
VS2SC2412KR-1	8-44	AD		B
[X]				
XBBSD30P06000	1-B4	AA		C
XBPSN40P06K00	1-B5	AA		C
XEBSD30P08000	1-B3	AA		C
〃	5-B3	AA		C
XEBSD30P12000	1-B7	AA		C
XUBSD20P06000	3-B2	AA		C
[0]				
0CBBFZ89256Z/	9-28	AD		B
0CBLRZ6616ZN/	9-33	AQ		C
0CBLRZ6619ZQ/	9-34	AQ		C
0CBPCZ0275ZZ/	9-17	AD		C
0CBPJCEJ1601/	9-25	AH		A
〃	9-26	AH		A
0CBPKZ0194ZZ/	9-16	AC		C
0CBPZZ0906ZZ/	9-27	AH		A
0CBPZZ0940ZZ/	9-32	AB		C
0CBUAC0289AK/	9-41	AD		B
〃	9-42	AD		B
0CBUAG0161AC/	9-37	AQ		B
0CBUAY0016CK/	9-39	AD		B
〃	9-40	AD		B
0CBUBC0125DK/	9-18	AD		B
〃	9-19	AD		B
〃	9-20	AD		B
〃	9-21	AD		B
0CBUBC0302BZ/	9-24	AE		B
0CBUBC0336AZ/	9-23	AL		B
0CBUBDAX270A/	9-69	AD		B
0CBUBDBE200D/	9-73	AD		B
0CBUBDBM300D/	9-71	AC		B
0CBUBXAD2R0A/	9-70	AD		B

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
0CBUBXAD6R2C/	9-72	AD		B
0CBUBY0020AK/	9-22	AD		B
0CBUCB0199AZ/	9-29	AR		B
0CBUDA0128AK/	9-38	AD		B
0CBUDC0163CZ/	9-35	AG		B
〃	9-36	AG		B
0CBUDC0232AK/	9-66	AF		B
0CBUEEC105CH/	9-44	AC		C
〃	9-45	AC		C
0CBUEEC335CH/	9-43	AC		C
0CBUEFDR33DB/	9-52	AE		C
0CBUEXCAO000/	9-5	AB		C
0CBUEXCAS103/	9-64	AB		C
0CBUEXCAS152/	9-47	AB		C
〃	9-56	AB		C
0CBUEXCAS154/	9-63	AB		C
0CBUEXCAS183/	9-48	AB		C
0CBUEXCAS184/	9-54	AB		C
0CBUEXCAS223/	9-58	AB		C
0CBUEXCAS273/	9-60	AB		C
0CBUEXCAS330/	9-49	AB		C
0CBUEXCAS331/	9-46	AB		C
0CBUEXCAS334/	9-57	AB		C
0CBUEXCAS390/	9-53	AB		C
0CBUEXCAS471/	9-51	AB		C
0CBUEXCAS472/	9-55	AB		C
〃	9-61	AB		C
〃	9-62	AB		C
0CBUEXCAS473/	9-50	AB		C
0CBUEXCAS822/	9-59	AB		C
0CBUEZ0507ZZ/	9-67	AD		B
0CBUFBA102FE/	9-68	AD		B
0CBUGAB101RV/	9-12	AF		C
0CBUGAC222VV/	9-9	AK		C
0CBUGAE561TS/	9-7	AH		C
0CBUGCM392BJ/	9-6	AF		C
0CBUGCU681BR/	9-14	AC		C
0CBUGCV102HZ/	9-3	AD		C
0CBUGFF223EH/	9-15	AC		C
0CBUGFF474JA/	9-8	AF		C
0CBUGFM224KR/	9-1	AF		C
0CBUGXAED104/	9-10	AC		C
0CBUGXAEF102/	9-13	AC		C
0CBUGXAEF222/	9-4	AC		C
0CBUGZ1041ZZ/	9-11	AF		C
0CBUGZ1072ZZ/	9-2	AN		C
0CBUKZ0826ZZ/	9-30	AK		C
0CBUZZ0156ZZ/	9-31	AN		C
0CB829655027/	9-65	BE		B

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK

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SHARP CORPORATION
Communication Systems Group
Quality & Reliability Control Center
Higashihiroshima, Hiroshima 739-0192, Japan
Printed in Japan

9911-37NS•IS•T